

REPORTS, RETURNS, AND STATISTICS
OF THE
INLAND REVENUES
OF THE
DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1916

PART III
ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT



OTTAWA
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1916

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REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

August 16, 1916.

To the Honourable E. L. PATENAUDE,
Minister of Inland Revenue,
Ottawa, Ontario.

HONOURABLE SIR,—I have the honour to herewith submit to you a report of the work performed by the Laboratory of the Inland Revenue Department during the fiscal year ending on the 31st of March, 1916.

This report is prefaced by a general review from the Chief Analyst of the labour performed by Dr. McGill and his assistants. It is therefore unnecessary for me to go into the matter more fully.

I may, however, be permitted to remark that this year's experience has conclusively proven the wisdom of the establishment of branch laboratories. This move was in accord with the needs of the country. The work of the laboratory is assuming each year greater importance. The public is relying more and more upon the publication of our standards and bulletins as guides towards the acquisition and consumption of pure foods and drugs.

In fact, under present conditions, the Laboratory can hardly keep pace with public requirements.

The Department has been endeavouring to secure the services of an additional number of analysts, but without success, and I am afraid the remuneration at present paid to analysts is insufficient to induce them to enter the Government Service. Better salaries seem to be available in the industrial fields.

The demand for good analysts at a high salary is growing very fast, more especially since the beginning of the war. This is due to the fact that many enterprising Canadians have endeavoured to establish in this country manufactories of articles which were previously imported.

I am, therefore, of the opinion, that the Department will have to be prepared to pay higher salaries to analysts, if it would be sufficiently equipped and manned in proportion to the amount of work to be done.

Sometime ago I suggested to the Chief Analyst that a material saving could be effected in the printing of the Annual Report by eliminating therefrom that part of each bulletin in which is contained the list of the samples and the results of their analysis. There is no practical advantage in including these lists in the Report. The Department always keeps a large stock of bulletins on hand, which are distributed among the parties interested, or sent to them upon request. I am glad to see that the Chief Analyst has agreed with this view.

I have the honour to be, Honourable Sir,

Yours very truly,

J. U. VINCENT,
Deputy Minister of Inland Revenue.

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OTTAWA, July 20, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,
Ottawa, Ont.

SIR,—I beg to report as follows upon the work of these laboratories for the fiscal year ending 31st March, 1916.

In my report of last year I gave an account of certain important changes contemplated and partly effected in the organization of the Laboratory Branch of this department. These consist essentially in the establishment of branch laboratories or so-called sub-laboratories, at various important commercial centres. The sub-laboratories in question are to be regarded as parts of a system of which the central laboratory at Ottawa is the head. The work done at the sub-laboratories is identical in kind with that performed at Ottawa and is reported to the department through the chief analyst, who is responsible for its amount and character.

Because of this fact, it is desirable that the analysts in charge of the sub-laboratories should be men who have had experience at Ottawa, and who possess the confidence of the chief analyst.

Three sub-laboratories are now in working order, namely, at Halifax, Winnipeg, and Vancouver. It is to be expected that others will be established at the more important points, in the not distant future. Many advantages should manifest themselves consequent upon a system which comprehends at the same time centralization, in the sense of control at Ottawa, and localized activity. Canada is a country of so wide extent that great delays are inevitable, and much expense involved, when all samples of foods, drugs, and fertilizers are analysed at Ottawa. Many articles of a more or less perishable nature cannot be effectively inspected from a single centre.

The following synopsis of work done at our sub-laboratories during the first year of their existence will be found interesting:—

Halifax.—The laboratory is temporarily located at 48-50 Bedford Row. Mr. C. C. Forward was placed in charge in December, 1914, and Mr. A. J. Landry was sent out as his assistant in September, 1915. Both of these gentlemen had been, for some years, on the staff at Ottawa. This was the first of the sub-laboratories to be put into commission; and Mr. Forward was without assistance until September, 1915. He reported 144 samples of various character, up to the 31st March, 1915.

The record of samples worked at Halifax during the fiscal year covered by the present report (1st April, 1915, to 31st March, 1916) is as follows:—

Samples worked under instructions from Ottawa	842
For local excise	21
Various local samples	28
Total	891

In addition to the above, five Winchesters of Normal Soda were supplied to the excise service.

Winnipeg.—The laboratory is situated in the upper flat of the post office building at the corner of Magnus avenue and Main street. Mr. E. L. C. Forster was placed in charge in April, 1915, with Mr. W. A. Davidson, as assistant, in September, 1915, both gentlemen having been members of the staff at Ottawa. This sub-laboratory reports as follows for the fiscal year ending March 31, 1916:—

Samples worked under instructions from Ottawa	474
Local samples	10
Total	484

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In addition to the above, twenty-two samples of standard solutions were supplied to the excise service.

Vancouver.—The laboratories are temporarily located at 249 Hastings street. Mr. J. A. Dawson was placed in charge in February, 1915, with Mr. P. T. Kirwan, as assistant, in August, 1915, both gentlemen having been on the staff at Ottawa. The following work is reported for the year ending March 31, 1916:—

Samples worked under instructions from Ottawa 765

In addition, five standard solutions were prepared for use in Excise service.

When it is remembered that all these sub-laboratories have been but recently equipped; that the equipment is more or less incomplete, even now; that the technical staffs have no clerical or other assistance, and in two cases occupy temporary quarters, necessarily more or less ill-suited to laboratory purposes, I regard the above records as highly creditable, and I have much pleasure in presenting them to you.

The manning of these sub-laboratories by men drafted from the technical staff at Ottawa has seriously reduced this staff, and made necessary the appointment of additional analysts. My last report included a statement of our technical staff as organized in March, 1915 (see departmental letter No. 126722 of file 108043).

The personnel of this staff was then as follows:—

TECHNICAL STAFF of Laboratory Branch at March 31, 1915.

	Title.	Name.
At Ottawa	1 Chief Analyst	A. McGill
	2 Deputy "	A. Levesque
	3 First Assistant Analyst.	A. Valin
	4 Second "	V. Kitch
	5 Third "	E. Forster
	6 Fourth "	A. Couture
	7 Fifth "	P. Kirwan
	8 Sixth "	A. Lundy
	9 Seventh "	S. J. Cook
	10 Eighth "	W. Davidson
	11 Ninth "	F. Collier
	12 Laboratory Assistant.	Miss Wright
At Halifax	13 In charge	C. Furwell
	14 Assistant	Vacant
At Winnipeg	15 In charge	"
	16 Assistant	"
At Vancouver	17 In charge	J. Dawson
	18 Assistant	Vacant

The following changes were made during the year 1st April, 1915, to 31st March, 1916:—

Mr. E. L. C. Forster, Third Assistant Analyst, was sent to Winnipeg, in charge of the sub-laboratory at that place, in April, 1915.

Mr. A. P. Couture, Fourth Assistant Analyst, resigned in January, 1916.

Mr. P. T. Kirwan, Fifth Assistant Analyst, was sent as assistant at Vancouver, in August, 1915.

Mr. A. J. Lundy, Sixth Assistant Analyst, was sent as assistant to Halifax in September, 1915.

Mr. W. A. Davidson, Eighth Assistant Analyst, was sent as assistant to Winnipeg in September, 1915.

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The following shows the personnel of the Technical staff, as it existed on 31st March, 1916:—

	Title.	Name.
At Ottawa	1 Chief Analyst.....	A. McGill.
	2 Deputy "	A. Lemoine.
	3 First Assistant Analyst.....	A. Valin.
	4 Second "	V. Kitto.
	5 Third "	S. J. Cook.
	6 Fourth "	F. Collier.
	7 Fifth "	L. Westman.
	8 Sixth "	Vacant.
	9 Seventh "	"
	10 Eighth "	"
	11 Ninth "	"
	12 Laboratory Assistant.	Miss Wright.
At Halifax	13 In charge.....	C. C. Forwerd.
	14 Assistant.....	A. J. Landry.
At Winnipeg.....	15 In charge.....	E. L. C. Forster.
	16 Assistant.....	W. A. Davidson.
At Vancouver	17 In charge.....	J. A. Dawson.
	18 Assistant.....	P. T. Kirwan.

Mr. L. E. Westman was appointed as Fifth Assistant Analyst in April, 1915.

It will be seen that five vacancies on the Ottawa staff remained unfilled for the following periods:—

1. By removal of Mr. Forster to Winnipeg, from April, 1915—eleven months.
2. By removal of Mr. Kirwan to Vancouver, from August, 1915—seven months.
3. Removal of Mr. Landry to Halifax, from September, 1915—six months.
4. Removal of Mr. Davidson to Winnipeg from September, 1915—six months.
5. By resignation of Mr. A. P. Couture, from January, 1916—two months.

A total of thirty-two months. To compensate this reduction of the Ottawa staff, we have one appointment (Mr. Westman) in April, 1915, eleven months. Thus the Ottawa staff has been below normal during the past fiscal year, by a quantity which may be stated as the work of an analyst for twenty-one months.

It is hoped that, during the year now current, the vacancies above indicated will be filled; and additional technical assistance furnished.

During the fiscal year covered by this report, the following analyses have been made upon samples collected under the provisions of the Adulteration Act, and the results have been published in Bulletin form:—

Number of Bulletin.	Subject.	Number of Samples.	Number of Bulletin.	Subject.	Number of Bulletin.
310	Milk in smaller towns and villag.	205	325	Maple syrup.....	243
311	Shorts or middlings.....	189	326	Malt extract.....	152
312	Molasses	140	327	Bleaching powder	101
313	Vinegar	245	328	Salad oil	159
314	White pepper.....	387	329	Pot and Pearl barley.....	191
315	Tincture of opium.....	127	330	Breakfast foods.....	33
316	Native wine.....	187	331	Turpentine.....	212
317	Fertilizers as sold.....	420	332	Linseed oil.....	210
318	Milk in smaller towns and villag.	209	333	Formalin.....	68
319	Chop feed.....	149	334	Butter.....	138
320	Table syrups other than maple..	200	335	Cream of tartar	180
321	Lime juice.....	83	336	Tincture of ginger.....	65
322	Maple confections.....	58	337	Lemon flavouring extract	223
323	Saltpetre	166			
324	Maple sugar.....	234		Total.....	4,974

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The Bulletins above enumerated, in continuance of a custom which has been observed since 1887, are reprinted with this report. I would respectfully advise that the practice referred to be discontinued, in the interest of economy. Sufficiently large editions are always published in the first instance, to meet normal demands; and it would but little increase the cost of publication were sufficiently large first editions printed to enable us to hold over a surplus, in case of unusual demand. In my opinion, a brief synopsis of their contents would prove sufficient for the purposes of the annual report.

In addition to the work above referred to, 682 samples of various kinds were analysed in the laboratories at Ottawa. These are enumerated below:

Acetic acid.....	67	Maple sugar.....	31
Acetone.....	1	Maple syrup.....	64
Alcohol.....	3	Mass wine.....	1
Allspice.....	1	Malt extract.....	1
Amyl acetate.....	1	Medicine.....	1
Aspirin.....	5	Methyl alcohol.....	1
Baking powder.....	2	Methylated spirits.....	1
Beer.....	23	Middlings.....	4
Benzine.....	1	Milk.....	2
Benzol.....	5	Milk powders.....	4
Brandy.....	1	Nitre.....	2
Bread improver.....	1	Oil.....	1
Butter.....	52	Oil of lux.....	1
Calf meal.....	1	Olive oil.....	1
Cheese.....	4	Paint.....	30
Chloroform.....	11	Pepper.....	17
Cider.....	1	Pepper shells.....	1
Clarine tablets.....	1	Pills.....	1
Coffees.....	4	Preservative.....	4
Cream of tartar.....	3	Rope.....	2
Denatured alcohol.....	2	Salt-petre.....	1
Disinfectants.....	4	Sausages.....	2
Dubbin.....	6	Sea water.....	1
Ether.....	7	Screenings.....	1
Evaporated apples.....	2	Shortening.....	4
Feed.....	1	Shorts.....	2
Feed barley.....	1	Soap.....	2
Fertilisers.....	20	Spice.....	5
Fish biscuits.....	2	Spirits.....	71
Flour.....	6	Strawberries.....	1
Fusel oil.....	19	Sugar.....	2
Gasoline.....	2	Tablets.....	3
Ginger.....	1	Table syrup.....	1
Headlight oil.....	1	Tartaric.....	1
Honey.....	4	Tea.....	2
Insecticide.....	1	Temperance.....	1
Iodine.....	1	Tincture of opium.....	1
Jam.....	87	Turpentine.....	1
Katalpa powder.....	1	Vanilla extract.....	2
Ketchup.....	2	Vinegar.....	4
Kreol.....	1	Water.....	17
Lemon extract.....	1	Whiskey.....	1
Liver oil.....	1	Wine.....	1
Mace.....	2	Wool alcohol.....	2
Malt liquors.....	4	Wool spirit.....	12
Maltzyrnore.....	1		
Maple confections.....	4		
		Total.....	682

At Ottawa, 205 samples of vinegar were tested for excess purpura, and the following solutions supplied:—

Normal soda.....	
" sulphuric acid.....	
" acetic acid.....	
Solution phenolphthalein.....	
Total.....	

Wine samples

1

2

3

4

5

Total

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Standards for fruit and fruit products as fixed by Order in Council of 17th October, 1912 (see G. 1044) were amended as regards the moisture limit for evaporated apples, by Order in Council of 16th March, 1916 (see G. 1238). The limit for moisture is reduced from 27 per cent to 25 per cent.

A great deal of work has been done in connection with the standardization of various classes of foods; but although this has resulted in the accumulation of much valuable data, our acquisitions are not sufficiently complete to justify definite recommendation, having legislation in view.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst

APPENDIX A.

BULLETIN No. 310—MILK, IN SMALLER TOWNS AND VILLAGES.

OTTAWA, April 12, 1915.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—I have the honour to hand you a report upon two hundred and eight (208) samples of milk as purchased by our inspectors in smaller towns and villages of Canada. This report may be regarded as a continuation of the work published as Bulletin No. 298—and will be continued, from time to time.

The samples now reported were procured in January, February and March of this year and were taken in hand immediately on receipt at the laboratory, so that no allowance can be made for alteration of the article, except in the cases especially mentioned, (3956, 3957 and 3958), where, through some error on the part of the inspector, the samples were received in spoiled state.

The results of inspection are thus summarized ;—

Samples found genuine.....	168
“ doubtful.....	16
“ not up to standard.....	21
“ spoiled when received.....	3
Total.....	<u>208</u>

As regards the fat content of the two hundred and five samples analyzed, the following is of interest :—

Fat above 5.0 per cent in.....	23 samples
“ 4.5 “.....	22 “
“ 4.0 “.....	43 “
“ 3.5 “.....	53 “
“ 3.25 “.....	32 “
Fat below 3.25 “.....	32 “
Total.....	<u>205</u> “

It is quite apparent that our standard of 3.25 per cent fat is a very reasonable minimum fat requirement, since it is found in 173 samples out of 205, or in 85 per cent of the total collection.

I beg to recommend publication of this report as Bulletin No. 310.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst

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BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Mar. 11	Milk.....	64146	R. H. Means, Winsdor, N.S.	1 qt.	7	Vendor.....	.....
" 11	"	64147	R. Redder, " "	1 "	7	" .....	.....
" 11	"	64148	T. H. Curry, " "	1 "	7	" .....	.....
" 12	"	64149	Acadia Dairy Co., Wolfville, N.S.	1 "	nil.	Geo. Sheam, Grand Pre., N.S.	.....
" 12	"	64150	Wm. Regan, " "	1 "	8	Vendor ..	.....
" 16	"	64151	A. Young, New Town, Lunenburg, N.S.	1 "	7	" .....	.....
" 16	"	64152	J. D. Selig, " "	1½ pts.	4	" .....	.....
" 16	"	64153	Paul Mosher, " "	1 qt.	7	" .....	.....
" 18	"	64154	A. J. Keddy, Dartmouth, N.S.	1 "	9	" .....	.....
" 18	"	64155	H. E. Walker, " "	1 "	9	T. Ritchie, Gaston Rd., Coal Harbour, N.S.	.....

DISTRICT OF NEW BRUNSWICK—

Feb. 16	Milk..	65901	Cliff Thompson, St. Stephen, N.B.	1 qt.	10	Vendor.....	.....
" 16	"	65902	Byron Hayman " "	1 "	nil.	" .....	.....
" 16	"	65903	J. R. Waller " "	1 "	10	" .....	.....
" 22	"	65904	Chas. A. Peabody, Woodstock, N. B.	1 "	10	" .....	.....
" 22	"	65905	Peabody Bros., " "	1 "	10	" .....	.....
" 22	"	65906	Geo. W. Boyer, " "	1 "	nil.	" .....	.....
" 24	"	65907	Nap. Turcotte, River Bank, Grand Falls, N.B.	1 "	15	" .....	.....
Mar. 2	"	65908	Maritime Dairy Co., Sussex, N.B.	1 "	10	Robt. Shannon, Sussex, N.B.	.....
" 2	"	65909	Sussex Cheese and Butter Co., " "	1 "	6	.....	King's County Farmers.
" 2	"	65910	T. H. Brown, " "	1 "	10	Freeze Brothers, Sussex, N.B.	.....

DISTRICT OF QUEBEC CITY—

Jan. 28	Milk.....	56304	S. F. Fleury, Tifford.....	1 qt..	15	F. F. Flury.....
" 28	"	56305	Thon. Ward, Tifford.	1 "	10	Vendor
" 28	"	56306	T. Dacre, Tifford	1 "	10	"

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MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Sp. Gr.	Total Solids.	Fat.	Non-fat Solids.		

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.		
.....	1·0312	12·22	3·64	8·58	64146	Genuine.
.....	1·0312	12·83	4·18	8·65	64147	"
.....	1·0261	10·28	3·09	7·19	64148	Below standard in fat and solids.
.....	1·0332	12·96	4·05	8·91	64149	Genuine.
.....	1·0277	12·60	4·70	7·90	64150	Non-fat solids low. Pass.
.....	1·0324	13·00	4·16	8·84	64151	Genuine.
.....	1·0288	15·40	7·05	8·35	64152	"
.....	1·0274	11·75	4·14	7·61	64153	Non-fat solids low.
.....	1·0348	12·15	2·81	9·34	64154	Fat too low.
.....	1·0274	10·25	2·80	7·45	64155	Fat and total solids low.

JOHN C. FERGUSON, INSPECTOR.

.....	1·0321	12·71	4·05	8·66	65901	Genuine.
.....	1·0315	11·77	3·38	8·39	65902	"
.....	1·0321	12·72	4·08	8·64	65903	"
.....	1·0334	13·33	4·27	9·06	65904	"
.....	1·0314	11·71	3·27	8·44	65905	"
.....	1·0360	12·33	2·78	9·55	65906	Fat too low.
.....	1·0310	13·04	4·43	8·61	65907	Genuine.
.....	1·0320	12·50	3·70	8·74	65908	"
.....	1·0333	13·60	4·55	9·05	65909	"
.....	1·0336	12·80	3·74	9·06	65910	"

E. X. W. E. BELAND, INSPECTOR.

.....	1·0325	13·80	4·46	9·43	56204	Genuine.
.....	1·029	13·10	5·06	7·94	56205	Non-fat solids low. Pass.
.....	1·033	14·80	5·96	8·93	56206	Genuine.

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BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
Jan. 28	Milk..	56307	J. Brown, Tifford.....	1 qt..	10	Vendor	
" 28	"	56308	N. Roy, Tifford.....	1 "	10	"	
" 27	"	60799	L. Begin, 2ème Ave., Stadacona.	1 "	10	"	
" 27	"	60800	F. X. Turgeon, 2ème Ave., Stadacona.	1 "	10	"	
" 27	"	57301	A. Dorion, Gros Pin, Charlesbourg.	1 "	10	"	
" 27	"	57302	N. Dorion, Gros Pin, Charlesbourg.	1 "	10	"	
" 27	"	56303	T. Conway, Gros Pin, Charlesbourg.	1 "	10	"	

DISTRICT OF QUEBEC PROVINCE—

Jan. 19	Milk..	3748	W. Garneau, Thetford Mines.	1 qt..	15		
" 19	"	3749	J. A. Cyr, Robertsonville, Megantic.	1 "	15		
" 21	"	3752	David Aubert, St. Lewis...	1 "	15	Vendor.	
" 22	"	3753	Alphonse Layeux, St. Joseph de Lévis.	1 "	15	"	
" 23	"	3754	Olivier Samson, St. Joseph de Lévis.	1 "	15	"	
" 24	"	3769	Oscar Côté, St. Joseph de Lévis.	1 "	15	"	
" 29	"	3772	E. Juneau, St. Joseph Malo.	1 "	15	"	
Feb. 5	"	3785	A. Drolet, Ancienne Lorette.	1 "	15	"	
" 5	"	3786	F. X. Latulippe, Charlesbourg.	1 "	15	"	
" 12	"	2596	Antoine Marceau, Armagh.	1 "	6		
" 12	"	2597	Charle Bernard, Armagh...	1 "	6		
" 12	"	2598	Exavier Boulanger, Armagh.	1 "	6		
" 12	"	2599	André Audet, Armagh....	1 "	6		
" 10	"	3527	Alfred Roy "	1 "	6		
" 11	"	3528	Louis Leblond, St. Neri....	1 "	6		
" 8	"	3505	Joseph Fortier, St. Lazare.	1 "	6		
" 9	"	3515	Alfred Ruselle, St. Charles.	1 "	6		
" 9	"	3516	Joseph Couture, " ..	1 "	6		
" 10	"	3521	Joseph Vailiere, St. Michel.	1 "	6		

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Total Solids.	Fat.	Non-fat Solids.		

Concluded.

		p. c.	p. c.	p. c.		
.....	1 034	15.21	5.68	9.53	56307	Genuine.
.....	1 033	12.28	3.56	8.72	56308	"
.....	1 034	14.37	5.10	9.27	60799	"
.....	1 033	13.60	4.23	9.37	60800	"
.....	1 033	13.60	4.52	9.08	57301	"
.....	1 035	13.36	4.23	9.13	57302	"
.....	1 033	13.47	4.47	9.00	56303	"

J. E. AUDET, O. BROCHU, N. CADIEUX, TEMPORARY INSPECTORS.

.....	1 033	12.62	3.66	8.96	3748	Genuine.
.....	1 033	13.54	4.84	8.70	3749	"
.....	1 031	12.45	4.38	8.08	3752	Non-fat solids low. Pass.
.....	1 032	15.72	6.96	8.76	3753	Genuine.
.....	1 034	13.63	4.76	8.87	3754	"
.....	1 032	17.31	8.29	9.02	3769	"
.....	1 035	13.38	4.19	9.19	3772	"
.....	1 034	12.38	3.33	9.05	3785	"
.....	1 033	13.40	4.21	9.19	3786	"
.....	1 036	14.31	4.93	9.38	2596	"
.....	1 030	16.01	7.20	8.81	2597	"
.....	1 032	14.31	5.68	8.63	2598	"
.....	1 030	13.17	4.06	9.11	2599	"
.....	1 032	13.12	4.46	8.66	3527	"
.....	1 034	15.71	6.43	9.28	3528	"
.....	1 035	13.08	4.05	9.03	3505	"
.....	1 035	12.59	3.75	8.84	3515	"
.....	1 030	14.06	4.11	8.95	3516	"
.....	1 030	13.96	4.63	9.33	3521	"

7 GEORGE V, A. 1917

BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1915.							
Jan. 21	Milk..	249	Maurice Durand, St. Jerome, P. Q.	24 oz.	5		
" 21	"	250	Paul E. Leclair, "	24 "	5		
" 21	"	251	Gilbert Pelletier, "	24 "	5		
" 21	"	252	Charlemange Taillou, "	24 "	7		
" 21	"	253	François Leconite "	24 "	5		
Feb. 2	"	255	J. A. Fournelle, St. Agathe des Monts.	24 "	5		
" 2	"	265	Jules Gundon, "	24 "	5		
" 10	"	266	Maurice Durand, St. Jerome.	24 "	7		

DISTRICT OF EAST QUEBEC—

Jan. 26	Lait.....	56428	Joseph Gazè, Montmagny.	1 pt.	10	Vendor.....	
" 26	"	56429	Joseph Baumont, Montmagny.	1 "	10	"	
" 26	"	56430	Eugene Bernachez, Montmagny.	1 "	10	"	
" 27	"	56431	Louis Tetu, Montmagny.	1 "	10	"	
" 29	"	56432	H. Lebel, Rivière du Loup.	1 "	10	"	
" 29	"	56433	C. Paradis, Rivière du Loup.	1 "	10	"	
" 29	"	56434	Benjamin Michaud, Rivière du Loup.	1 "	10	"	
" 29	"	56435	Etienne Roy, Rivière du Loup.	1 "	10	"	
" 29	"	56436	Jos. Rousselle, Rivière du Loup.	1 "	10	"	
" 29	"	56437	Jos. Belanger, Rivière du Loup.	1 "	10	"	

DISTRICT OF THREE RIVERS—

Jan. 22	Milk.....	3955	Luc. Charette, L'Assomption.	1½ pt.	6	Vendor	
" 25	"	3956	J. B. Renaud, St. Paul....	1½ "	8	"	
" 25	"	3957	A. Pelland, St. Elizabeth....	1½ "	8	"	
" 25	"	3958	J. Latour, "	1½ "	8	"	
" 26	"	3959	Narcisse Joly, St. Felix Valois.	1½ "	8	"	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report, (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Total Solids.	Fat.	Non-fat Solids.		

Concluded.

		p. c.	p. c.	p. c.		
.....	1.036	12.83	3.99	8.84	249	Genuine.
.....	1.034	13.51	4.17	9.34	250	"
.....	1.033	14.59	4.72	9.87	251	"
.....	1.033	13.66	3.97	9.69	252	"
.....	1.035	14.00	4.29	9.71	253	"
.....	1.023	9.34	2.97	6.37	255	Solids and fat too low
.....	1.034	12.99	3.92	9.07	265	Genuine.
.....	1.035	13.17	4.21	8.96	266	"

ALF. PELLETIER, TEMP. INSPECTOR.

.....	1.033	12.91	3.68	9.23	56428	Genuine.
.....	1.034	12.09	3.24	8.85	56429	"
.....	1.034	12.31	3.44	8.87	56430	"
.....	1.032	16.91	8.12	8.79	56431	"
.....	1.034	12.87	3.80	9.07	56432	"
.....	1.033	12.19	3.54	8.65	56433	"
.....	1.036	13.91	4.77	9.14	56434	"
.....	1.035	13.87	4.52	9.35	56435	"
.....	1.036	13.72	4.50	9.22	56436	"
.....	1.034	13.12	3.98	9.14	56437	"

D. V. P. LAVALLEE, INSPECTOR.

.....	1.032	12.07	3.37	8.70	3855	Genuine.
.....	Sour	-	-	-	3856	Not worked.
.....	.....	.....	.....	.....	3857	"
.....	"	.....	.....	.....	3858	"
.....	1.035	13.44	4.14	9.30	3859	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS—

1915.							
Jan. 26	Milk	3960	Henri Laferrière, St. Felix Valois.	1½ pt.	8	Vendor	
" 27	"	3961	Nap. Contu, Joliette.	1½ "	5	"	
" 27	"	3962	Ludger Peltier, Joliette....	1½ pt.	8	"	
" 27	"	3963	Jos. Coderre, Joliette....	1½ "	8	"	
Feb. 8	"	3924	Elie Laferiere, St. Pierre...	1½ "	10	"	
" 8	"	3925	Jos. Desrosiers, St Cecile .	1½ "	10	"	
" 8	"	3926	Jos. Beausoleil, St. Felix Valois.	½ "	5	"	

DISTRICT OF EASTERN TOWNSHIPS—

Feb. 9	Milk.	1677	H. Cole, Richmond East...	1 qt.	7	Vendor	
" 9	"	1678	W. H. McLaughlin, Richmond East.	1 "	7	"	
" 9	"	1679	J. C. Martin, Richmond East.	1 "	7	"	
" 10	"	1680	Eugene Pellerin, Victoriaville.	1 "	8	"	
" 10	"	1682	P. Coulombe, Victoriaville	1 "	8	Unknown.....	
" 11	"	1684	A. F. Andrews, Coaticook...	1 "	7	Vendor	
" 11	"	1685	V. Davignon "	1 "	7	"	
" 12	"	1686	E. St. Laurent, Thetford...	1 "	8	"	
" 12	"	1687	F. Daudier, Thetford Mines	1 "	8	"	
" 16	"	1688	L. Wheeler, Windsor Mills	1 "	7	"	

DISTRICT OF MONTREAL—

Feb. 1	Milk	62681	A. Laliberte, 23E Hickson ave., Verdun.	1½ pt.	8	G. W. Rush, Verdun.	
" 1	"	62682	C. Trepanier, 235 Ethel st., Verdun.	1½ "	9	Unknown	
" 1	"	62683	D. Emond, 311 Gertrude street, Verdun.	1½ "	8	A. Martin, Verdun	
" 1	"	62684	R. W. Hadley, 35 Gordon ave., Verdun.	1½ "	8	J. A. Monteith...	
" 2	"	62685	Dionne & Dionne, 4120 St. Catherine st. W., Westmount.	1½ "	9	A. D. Buchanan, Westmount.	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. Is not an expression of opinion.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr.	Total solids.	Fat.	Non fat solids.		

Concluded.

		p. c.	p. c.	p. c.		
.....	1.035	13.30	4.05	9.25	3960	Genuine.
.....	1.035	13.46	4.11	9.35	3961	"
.....	1.030	11.05	3.10	7.96	3962	Solids and fat too low. Pass.
.....	1.033	13.95	4.73	9.22	3963	Genuine.
.....	1.029	17.37	9.02	8.35	3924	"
.....	1.035	12.60	3.57	9.03	3925	"
.....	1.033	15.03	6.07	8.96	3926	"

J. C. ROULEAU, INSPECTOR.

.....	1.030	14.35	5.68	8.67	1677	Genuine.
.....	1.031	15.44	7.08	8.36	1678	"
.....	1.033	12.97	4.13	8.84	1679	"
.....	1.032	11.39	2.92	8.47	1680	Fat too low.
.....	1.023	9.50	2.81	6.24	1682	Fat and solids too low.
.....	1.035	11.92	3.06	8.86	1684	Fat below standard. Pass.
.....	1.031	11.66	3.83	7.83	1685	Solids below standard. Pass.
.....	1.034	13.02	3.85	9.17	1686	Genuine.
.....	1.034	12.39	3.25	9.14	1687	"
.....	1.034	12.66	3.87	8.79	1688	"

D. F. KEARNEY, INSPECTOR.

.....	1.034	12.72	3.90	8.82	62681	Genuine.
.....	1.035	12.19	3.48	8.71	62682	"
.....	1.033	11.79	3.60	8.19	62683	Non-fat solids low. Pass.
.....	1.034	12.31	3.61	8.70	62684	Genuine.
.....	1.034	11.75	2.81	8.94	62685	Fat too low.

7 GEORGE V, A. 1917

BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
Feb.	2	Milk	62686 E. J. Quinn, 4201 St. Catherine st. W., Westmount.	1½ lbs.	9	Geo. A. West	.....
"	3	"	62687 Dame N. Dupuis, 94 Notre Dame st., Lachine.	1½ "	9	X. Belanger, Lachine.	.....
"	3	"	62688 J. Culos, 78b Notre Dame St., Lachine.	1½ "	10	Unknown.....	.....
"	3	"	62689 John Philips & Co., 78 Notre Dame st., Lachine.	1½ "	10	G. W. Dagenais, Lachine.	.....
"	3	"	62690 P. Colaris, 70 Notre Dame st., Lachine.	1½ "	15	Unknown.	.....

DISTRICT OF VALLEYFIELD--

Feb.	9	Milk	58236 S. Langlois, St. John, P.Q.	1 qt.	10	.....	.....
"	9	"	58237 Gustave Poirier, "	1 "	10	.....	.....
"	9	"	58238 Joseph Poirier, "	1 "	10	.....	.....
"	9	"	58239 Jerme Bechard, "	1 "	10	.....	.....
"	9	"	58240 William Copping, "	1 "	10	.....	.....
"	9	"	58241 O. Depelteau, "	1 "	10	.....	.....
"	9	"	58242 E. Senecal, "	1 "	10	.....	.....
"	17	"	58243 John Cassidy, Masson....	1 "	10	.....	.....
"	17	"	58244 H. F. Cosgrove, Buckingham.	1 "	10	.....	.....
"	17	"	58245 W. H. Connolly, Buckingham.	1 "	10	.....	.....

DISTRICT OF OTTAWA—

Jan.	23	Milk	63475 A. W. Wright, Almonte....	1 qt.	10	Vendor.	.....
"	23	"	63476 John Andrews, "	1 "	10	"	.....
"	23	"	63477 Wm. Robertson, "	1 "	10	Unknown.....	Unknown.
"	23	"	63478 W. J. Coutanche, "	1 "	10	.....	Farmers
"	26	"	63479 Wm. Brady, Perth, Ont....	1 "	10	Vendor .....	.....
"	26	"	63480 Ed. Watt, Perth, Ont . . .	1 "	10	"	.....
"	26	"	63481 H. E. Chaplin, Perth, Ont .	1 "	10	"	.....
"	26	"	63482 M. Dodds, Perth, Ont.....	1 "	10	"	.....

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr.	Total solids.	Fat.	Non fat solids.		

Concluded.

		p.c.	p.c.	p.c.		
.....	1.035	10.40	2.08	8.32	62986	Fat and solids low.
.....	1.034	12.52	3.75	8.77	62687	Genuine.
.....	1.036	11.27	2.46	8.81	62688	Fat too low.
.....	1.035	12.15	2.99	9.16	62689	Fat too low—pass.
.....	1.036	14.41	4.79	9.62	62690	Genuine.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1.035	14.14	4.65	9.49	58236	Genuine.
.....	1.035	12.55	3.28	9.27	58237	"
.....	1.035	13.13	3.76	9.37	58238	"
.....	1.034	13.72	4.44	9.28	58239	"
.....	1.034	12.39	3.33	9.06	58240	"
.....	1.035	12.89	3.70	9.19	58241	"
.....	1.031	12.42	3.60	8.82	58242	"
.....	1.036	12.74	3.58	9.16	58243	"
.....	1.033	11.63	3.31	8.32	58244	Solids slightly low. Pass.
.....	1.034	13.86	4.53	9.33	58245	Genuine.

J. A. RICEY, INSPECTOR.

.....	1.035	12.15	2.91	9.24	63475	Fat too low. Doubtful.
.....	1.030	11.29	3.48	7.81	63476	Non-fat solids low. Doubtful.
.....	1.033	12.99	4.03	8.96	63477	Genuine.
.....	1.034	12.50	3.38	9.12	63478	"
.....	1.033	12.27	3.06	8.61	63479	"
.....	1.034	13.00	3.87	9.13	63480	"
.....	1.034	12.67	3.73	8.84	63481	"
.....	1.034	12.73	3.92	8.81	63482	"

7 GEORGE V, A. 1917

BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1915.							
Jan. 28	Milk	63482	Jas. Small, Prescott.....	1 qt.	10	Vendor .....	.....
" 29	"	63484	J. Adams, Prescott.....	1 "	10	" .....	.....
" 30	"	63485	Wm. Ward, Prescott.....	1 "	10	" .....	.....
" 30	"	63486	P. A. Munroe, Maxville....	1 "	10	" .....	.....

DISTRICT OF KINGSTON—

Feb. 8	Milk.....	66501	J. Shibley, Harrowsmith...	1 qt	5	Vendor .....	.....
" 8	"	66502	F. Walker, Harrowsmith	1 "	5	" .....	.....
" 8	"	66503	B. W. Ruttan, Harrowsmith	1 "	5	" .....	.....
" 8	"	66504	L. H. " Harrowsmith.	1 "	5	" .....	.....
" 9	"	66505	F. Redmond, Sydenham....	1 "	5	" .....	.....
" 9	"	66506	E. B. Sills, Sydenham. ...	1 "	6	" .....	.....
" 9	"	66507	W. Trovsdale, Sydenham....	1 "	5	" .....	.....
" 9	"	66508	W. Hobbs, Sydenham... ..	1 "	6	" .....	.....
" 9	"	66509	J. W. Davis, Sydenham....	1 "	5	" .....	.....
" 9	"	66510	J. Foxton, jr., Sydenham...	1 "	5	" .....	.....

DISTRICT OF TORONTO—

Feb. 16	Milk.. ..	64665	Horner Br.s., Richmond Hill.	1 qt..	7	Vendors.....	.....
" 16	"	64666	W. M. Watson, Aurora....	1 " ..	8	.....	Farmer
" 16	"	64667	Thos. Grimshaw, Aurora..	1 " ..	8	.....	" .....
" 16	"	64668	Theo. Bolton, Newmarket..	1 " ..	7	.....	E. N. Primrose..
" 16	"	64669	J. T. Wright, Newmarket..	1 " ..	8	.....	A. Robinson....
" 17	"	64670	W. M. McKay, Sutton.....	1 " ..	7	Vendor .....	.....
" 17	"	64671	A. Carpenter, Sutton.....	1 " ..	6	" .....	.....
" 18	"	64672	O. Bennett, Oshawa.....	1 " ..	7	.....	George Reason Oshawa.
" 18	" ..	64673	Geo. Hart, Oshawa.....	1 " ..	7	.....	Farmers.....
" 18	" ..	64674	Wm. Henderson, Cederdale.	1 " ..	7	.....	" .....

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Total Solids.	Fat.	Non-Fat Solids.		

Concluded.

		p. °c	p. c.	p. c.		
.....	1·035	11·97	3·25	8·72	63483	Genuine.
.....	1·034	13·24	4·04	9·20	63484	"
.....	1·035	12·76	3·91	8·85	63485	"
.....	1·035	12·64	3·76	8·88	63486	"

JAS. HOGAN, INSPECTOR.

.....	1·035	12·00	3·06	8·94	66501	Genuine.
.....	1·033	10·29	2·28	8·01	66502	Solids and fat low.
.....	1·035	13·51	4·30	9·21	66503	Genuine.
.....	1·035	14·31	4·96	9·35	66504	"
.....	1·036	13·80	4·75	9·05	66505	"
.....	1·033	12·93	3·94	8·99	66506	"
.....	1·036	14·06	4·34	9·72	66507	"
.....	1·033	13·10	4·02	9·08	66508	"
.....	1·033	15·31	6·26	9·05	66509	"
.....	1·035	13·84	4·28	9·56	66510	"

H. J. DAGER, INSPECTOR.

.....	1·034	12·73	3·90	8·83	64665	Genuine.
.....	1·033	11·58	3·02	8·56	64666	Fat slightly low. Pass.
.....	1·034	12·91	4·07	8·84	64667	Genuine.
.....	1·034	11·42	2·74	8·67	64668	Fat too low.
.....	1·033	12·12	3·14	8·98	64669	Genuine.
.....	1·041	15·13	4·72	10·41	64670	"
.....	1·037	13·11	3·77	9·34	64671	"
.....	1·036	12·43	3·33	9·10	64672	"
.....	1·034	13·82	4·77	9·05	64673	"
.....	1·036	12·59	3·28	9·31	64674	"

7 GEORGE V, A. 1917

BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1915.							
Mar.	2	Milk.....	66814 W. Oliver, No. 1 Route, Branchton.	1 qt..	7	Vendor and other sources.	
"	2	"	66815 L. G. Good, Preston.....	1 " "	7	Farmers	
"	2	"	66816 Wm. Parr, Hespler....	1 " "	7	"	
"	3	"	66817 M. Dubrich, Waterloo....	1 " "	7	"	
"	3	"	66818 J. G. Main, Berlin.....	1 " "	8	Vendor and other sources.	
"	10	"	66819 R. C. Mills, Burford.....	1 " "	7	Farmers	
"	11	"	66820 M. Gilmore, Grimsby....	1 " "	8	"	
"	11	"	66821 J. E. Lawson, Grimsby....	1 " "	8	"	
"	12	"	66822 W. G. Passmore, Dundas..	1 " "	8	"	
"	12	"	66823 Robert Hunter, Dundas....	1 " "	8	"	

DISTRICT OF WINDSOR—

Feb.	19	Milk.....	54725 D. A. Brown, Strathroy....	3 bots.	Nil.		Jas. Brown....
"	17	"	54714 A. W. Huntley, Ingersoll...	1 qt..	"	Vendor.	
"	17	"	54715 F. A. Foster, Ingersoll....	1 " "	"	"	
"	18	"	54717 A. Devenny, St. Marys....	3 bots.	"		
"	18	"	54718 J. Rutig, St. Mary's....	3 " "	5		Walter Stewart.
"	18	"	54720 St. Mary's Creamery, St. Mary's.	3 " "	Nil.		Unknown
"	19	"	54726 J. Heardman, Strathroy....	3 " "	"		

DISTRICT OF MANITOBA—

Feb.	11	Milk.....	53191 A. Goodchild, St. James....	1 qt..	10	Vendor	
"	11	"	53192 F. C. Fraser, St. James....	1 " "	Nil.	"	
"	11	"	53193 T. Edwards, St. James....	1 " "	10	"	
"	11	"	53194 Crescent Creamery Co., Ltd., Winnipeg.	1 " "	10	Vendors.	
"	12	"	53195 N. D. Tatton, Transcona....	1 " "	10	Vendor.	
"	12	"	53196 M. Gorewich, Transcona....	1 " "	10	"	
"	15	"	53197 S. Benson, Selkirk.....	1 " "	10	"	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report Is not an expression of opinion.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Total Solids.	Fat.	Non-fat Solids.		

H. J. DAGER, ACTING INSPECTOR.

		p. c.	p. c.	p. c.		
.....	1.035	12.46	3.59	8.87	66814	Genuine.
.....	1.034	12.55	3.50	9.05	66815	"
.....	1.035	11.20	2.47	8.78	66816	Fat too low.
.....	1.035	11.84	2.84	9.00	66817	" "
.....	1.033	14.19	5.21	8.98	66818	Genuine.
.....	1.037	12.81	3.99	8.82	66819	"
.....	1.032	11.10	2.86	8.25	66820	Fat too low.
.....	1.032	11.04	3.18	7.86	66821	Non-fat solids low. Doubtful.
.....	1.037	12.37	3.37	9.00	66822	Genuine.
.....	1.035	12.26	3.31	8.95	66823	"

JNO. TALBOT, INSPECTOR.

.....	1.033	11.97	3.22	8.76	54725	Genuine.
.....	1.034	12.75	3.73	9.02	54714	"
.....	1.033	12.42	3.46	8.96	54715	"
.....	1.034	11.85	2.65	9.20	54717	Fat too low.
.....	1.034	12.62	3.62	9.00	54718	Genuine.
.....	1.034	12.42	3.26	9.16	54720	"
.....	1.033	12.60	3.67	8.93	54726	"

A. C. LARIVIERE, INSPECTOR.

.....	1.033	13.23	4.18	9.05	53191	Genuine.
.....	1.027	10.70	3.20	7.51	53192	Non-fat solids low.
.....	1.036	12.85	3.45	9.40	53193	Genuine.
.....	1.032	12.40	3.45	8.95	53194	"
.....	1.032	14.46	5.25	9.24	53195	"
.....	1.030	11.53	3.61	7.92	53196	Non-fat solids low. Pass.
.....	1.039	12.24	3.40	8.84	53197	Genuine.

7 GEORGE V, A. 1917
BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1915.							
Feb. 15	Milk	53198	Jacob Vopnord, Selkirk	1 qt. .	10	Vendor.	
" 23	"	53199	Allen Bros., Virden	1 " . . .		Vendors.	
" 23	"	53200	J. Beaton, Virden	1 " . . .		Vendor.	

DISTRICT OF SASKATCHEWAN—

Jan. 27	Milk	66306	S. K. Browning, Wolseley. . . .	1 qt. .	10	Vendor.	
" 27	"	66314	S. J. Briston, Grenfell. . . .	1 " . .	10		U. Moerriicht Bros., Grenfell
" 27	"	66317	Phillip Temple, Grenfell. . . .	1 " . .	10	Vendor.	
" 29	"	66325	David Hart, Qu'Appelle. . . .	1 " . .	10	"	
" 29	"	66326	R. E. Middleton, Qu'Appelle. . . .	1 " . .	10	"	
Feb. 2	"	66340	F. Myers, Rouleau.	3 pts. .	10	"	
" 2	"	66341	C. A. Stewart, Rouleau. . . .	3 " . .	10	"	
" 3	"	66343	George Davidson, Weyburn. . . .	3 " . .	10	"	
" 3	"	66344	Lewes Bros., Weyburn.	3 " . .	10	Frank Wana-maker, Weyburn	
" 3	"	66345	A. Burnett, Weyburn.	3 " . .	10	Vendor.	

DISTRICT OF ALBERTA—

Mar. 9	Milk	52065	O. E. Lapp, Didsbury	1 qt. .	10	Vendor.	
" 10	"	52066	Jos. Cousins, Innisfail. . . .	1 " . .	10	"	
" 10	"	52067	E. H. Dennis, Innisfail	1 " . .	10	"	
" 11	"	52068	Hepworth & Trimble, Red Deer. . . .	1 " . .	Nil	"	
" 11	"	52069	Red Deer Creamery, Red Deer. . . .	1 " . .	10	W. R. Parkins, Red Deer.	
" 12	"	52070	McCornick & Waddell Bros. Lacombe. . . .	1 " . .	10	Vendors.	
" 13	"	52071	Peter Iverson, Ponoka.	1 " . .	10	Vendor.	
" 16	"	52072	Meadowbrook Dairy, Leduc. . . .	1 " . .	10	Vendors.	
" 16	"	52073	W. T. Robinson, Leduc. . . .	1 " . .	10	Vendor.	
" 16	"	52074	John B. Schneifer, Wetaskiwin. . . .	1 " . .	10	"	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr.	Total Solids.	Fat.	Non-fat Solids.		

Concluded.

		p. c.	p. c.	p. c.		
.....	1·033	12·15	3·25	8·96	53198	Genuine.
.....	1·036	12·21	2·68	9·53	53199	Fat too low.
.....	1·036	12·49	3·46	9·03	53200	Genuine.

L. H. HALL, INSPECTOR.

.....	1·034	13·66	4·24	9·42	66306	Genuine.
.....	1·034	11·96	3·38	8·58	66314	"
.....	1·036	14·59	5·19	9·40	66317	"
.....	1·036	13·79	4·60	9·19	66325	"
.....	1·034	12·28	3·65	8·63	66326	"
.....	1·036	15·07	5·04	10·03	66340	"
.....	1·031	10·98	2·53	8·45	66341	Fat too low.
.....	1·029	13·24	4·93	8·31	66343	Genuine.
.....	1·033	13·74	4·23	9·51	66344	"
.....	1·033	12·54	3·39	9·15	66345	"

A. W. R. MARKLEY, INSPECTOR.

.....	1·035	12·17	2·77	9·40	52065	Fat too low.
.....	1·033	12·01	3·28	8·73	52066	Genuine.
.....	1·033	12·96	3·75	9·21	52067	"
.....	1·032	12·98	4·18	8·80	52068	"
.....	1·031	11·90	3·50	8·40	52069	"
.....	1·030	13·37	5·25	8·62	52070	"
.....	1·034	13·69	4·23	9·46	52071	"
.....	1·034	13·75	4·10	9·59	52072	"
.....	1·032	12·62	3·77	8·85	52073	"
.....	1·029	11·33	3·26	8·07	52074	Non-fat solids Low. Pass

7 GEORGE V, A. 1917

BULLETIN No. 310—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1915.							
Feb.	6	Milk.	61752 H. Carlson, Revelstoke, B.C.	1 qt.	10	Vendor.....	.....
"	6	"	61753 Swan Carlson, Revelstoke, B.C.	1 "	10	" .....	.....
"	6	"	61754 W. C. Calder, Revelstoke, B.C.	1 "	10	" .....	.....
"	6	"	61755 J. McIntyre & Son, Revelstoke, B.C.	1 "	10	" .....	.....
"	10	"	61764 W. Holliday, Salmon Arm, B.C.	1 "	10	" .....	.....
"	10	"	61765 P. Owens, Salmon Arm, B.C.	1 "	10	" .....	.....
"	16	"	61792 H. J. Jones, Rossland, B.C.	1 "	10	" .....	.....
Mar.	16	"	61793 T. Nimsich, Rossland, B.C.	1 "	10	" .....	.....
"	16	"	61794 W. Hayden, Rossland, B.C.	1 "	10	" .....	.....
"	16	"	61795 J. Stone, Rossland, B.C.	1 "	10	" .....	.....

DISTRICT OF VANCOUVER—

Feb.	3	Milk.	55198 R. H. Willcock, Ladner, B.C.	1 qt.	10	Alex. Davie, Ladner, B.C.	.....
"	4	"	55199 J. M. Steves, Steveston, B.C.	1 "	10	Vendor.....	.....
"	8	"	55200 Ben Jones, Eburne, B.C.	1 "	10	" .....	.....
"	10	"	55201 Chilliwack Creamery, Chilliwack, B.C.	1 "	10	Vendors.....	.....
"	10	"	55202 Chas. Hawthorne, Chilliwack, B.C.	1 "	10	Vendor.....	.....
"	10	"	55203 Chas. Robinson, Mission, B.C.	1 "	10	" .....	.....
"	10	"	55204 H. Windebank, Mission, B.C.	1 "	10	" .....	.....
"	12	"	55205 Port Coquitlam Dairy Co. Port Coquitlam, B.C.	1 "	10	Minnekahda Ranch, Port Coquitlam, B.C.	.....
"	12	"	55206 North Vancouver Dairy, North Vancouver, B.C.	1 "	10	Chilliwack Creamery, Chilliwack, B.C.	.....
"	13	"	55207 Hygienic Dairy, North Vancouver, B.C.	1 "	10	Edenbank Creamery, Sardis, B.C.	.....

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinions of the Chief Analyst.
	Sp. Gr.	Total solids.	Fat.	Non-Fat Solids.		

THOS. PARKER, INSPECTOR.

		p. c.	p. c.	p. c.		
.....	1.037	13.42	4.60	8.82	61752	Genuine.
.....	1.027	13.71	4.43	9.28	61753	"
.....	1.037	12.37	3.20	9.17	61754	"
.....	1.033	12.07	3.61	8.46	61755	"
.....	1.036	12.65	3.63	9.02	61764	"
.....	1.034	12.13	3.43	8.70	61765	"
.....	1.030	12.10	3.79	8.31	61792	"
.....	1.034	13.09	3.97	9.12	61793	"
.....	1.032	12.98	4.01	8.97	61794	"
.....	1.032	12.11	3.39	8.72	61795	"

J. E MORGAN, INSPECTOR.

Sample taken from small quantity remaining after delivery.	1.032	12.07	3.58	8.49	55198	Genuine.
Sample taken at the ranch. Milk not filtered.	1.033	14.63	5.26	9.37	55199	"
.....	1.033	12.41	3.47	8.94	55200	"
.....	1.024	14.21	5.68	8.53	55201	"
.....	1.030	11.83	3.29	8.54	55202	"
.....	1.031	12.64	3.84	8.80	55203	"
.....	1.034	13.96	4.31	9.25	55204	"
.....	1.032	11.69	3.07	8.62	55205	Fat slightly low. Pass.
.....	1.032	12.65	3.57	9.08	55206	Genuine.
.....	1.034	12.66	3.63	9.03	55207	"

SESSIONAL PAPER No. 14

APPENDIX B.

BULLETIN No. 311—SHORTS OR MIDLINGS.

OTTAWA, April 29, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon one hundred and eighty-nine (189) samples purchased by our inspectors as Shorts or Middlings.

This valuable feed has been made the subject of several reports since 1906 (see Bulletin 116, 156, 191, 231, 254); and it would appear that a considerable variation in character is found in the article sold under the names given.

The late Chief Analyst in a report dated March 16, 1906, advised legislation to define Feeding Stuffs (See Bull. No. 116) along the lines of an Act passed by Massachusetts in 1903; and our existent Commercial Feeding Stuffs Act became law in 1909. The extended frauds recognized in the manufacture and sale of Cattle feeds, has caused similar legislation to be enacted by most countries and this legislation, like our own, generally recognizes two classes of Feeds. *First*, those which, on account of their origin in nature or in manufacture, have a more or less constant composition and can be defined by fixing limiting values as provided by section 26 of the Adulteration Act. This class has been generally held to include Bran, Shorts, Middlings and so called Chop Feeds. *Second*, those which are manufactured according to a formula devised by the manufacturer, and usually proprietary. This class of feeds has, of course, extremely variable character; and the purchaser is entirely at the mercy of the manufacturers so far as concerns the value he gets for his money. Our Act requires that such feeds be sold only under a registration number, granted by the Department of Inland Revenue; and under a guarantee of minimum content in proteids and fat, and of maximum content in fibre. They are known, on the market as Registered Stock Feeds, in contradistinction to the first class, which may be sold without registration.

The limiting values fixed by Order in Council (see G. 932 and G. 968) for Shorts or Middlings, were determined by analysis of a very large number of samples purchased under these names. Details will be found in Bulletin No. 116, 156, 191 and 231 and the conclusion was reached that Shorts and Middlings must be regarded as practically the same thing, and that the minimum value for an article sold as Shorts or Middlings should be as follows:

Protein	15 per cent.
Fat	4 per cent.
Fibre	8 per cent. (maximum)

That these values are reasonable and just, is indicated by the results of inspection. Thus:—

Bulletin.	Year.	Number of Samples.	Mean Protein.	Mean Fat.	Mean Fibre.
116.....	1906	9	16.12	3.87	8.34
156.....	1908	36	16.37	4.00	7.75
191.....	1909	258	15.25	4.04	5.63
231.....	1912	126	16.09	4.57	5.83
254.....	1913	140	15.87	4.38	5.30
Total.....		569	15.67	4.90	5.77

There is, however, an article on the market which many of our inspectors have been supplied with under the name of *Shorts*, or *Special Shorts*, or *Choice Shorts*. This article appears to be regarded as superior to shorts, as ordinarily understood, its superiority consisting apparently in its whiter colour, due to more complete removal of the bran, or chaff, of the grain. It is really a low grade flour; and while it contains less fibre than ordinary shorts, it usually shows a lower fat value. I have drawn attention to this article in Bulletins 231 and 254, and have suggested the advisability of recognizing it as distinct from *Shorts* or *Middlings*, and calling it *Feed Flour*, a name which seems to properly describe it. The protein value of this article is in many cases quite as high as that of *Shorts* or *Middlings*, but its fat value, is usually distinctly lower, owing to more complete removal of the germ of the wheat.

In order clearly to show the difference between *Feed Flour* and *Shorts* (or *Middlings*) proper, I may cite the following example:—

—	Proteids.	Fat.	Fibre.
From Bulletin 231.			
36084.....	11.20	2.16	1.5
36956.....	12.73	1.55	0.7
43271.....	12.51	2.08	0.8
43281.....	13.26	2.32	1.3
48512.....	14.61	4.64	1.5
47413.....	15.11	2.66	1.9
47414.....	13.60	3.16	1.8
23866.....	15.20	3.40	1.8
48415.....	14.83	3.32	1.4
48185.....	11.42	1.99	0.9
38186.....	15.79	3.08	1.8
38188.....	14.13	2.82	2.6
38189.....	12.03	1.81	0.5
47611.....	14.61	2.37	1.1
47618.....	13.04	1.98	0.8
47621.....	13.71	2.28	1.0
Means.....	13.61	2.60	1.4

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	Proteids.	Fat.	Fibre.
From Bulletin 254.			
39160.....	15.71	3.50	1.3
50947.....	14.00	2.54	2.3
49676.....	13.78	2.04	1.4
Means.....	14.49	2.69	1.6
From present report.			
63526.....	16.55	4.60	1.3
61593.....	16.75	3.34	0.8
52047.....	13.25	2.74	0.9
55126.....	16.85	3.06	0.7
55127.....	17.65	3.42	1.8
55130.....	18.20	2.99	0.7
55131.....	16.60	3.04	1.7
55135.....	15.60	3.96	0.9
62033.....	17.00	3.04	0.9
Means.....	16.49	3.35	1.1

As already pointed out, the most noteworthy deviation from the standard for Shorts (Middlings) is the very low fibre; but this is accompanied by a lower percentage of fat, and in some cases by a lower protein value. It appears to me that this article should be placed on the market under a distinctive name; in which case it will be necessary to define it independently of shorts (middlings) under which term it apparently finds sale at present. The matter will be considered by your Advisory Board; and in the meantime I would suggest that the following examples of the article which appear in the present collection, be not dealt with as adulterated shorts or middlings, although the fat percentage is below the standard demanded. The protein content meets the requirements of 15 per cent (except in one sample) and as already explained, I have reason to believe that all samples referred to were offered in good faith, as believed to be superior grades of shorts or middlings. The samples in question are Nos. 61593, 52047, 55126, 55127, 55130, 55131, and 62033.

The following summarizes the results of this inspection:

Genuine (as shorts or middlings).....	170 samples.
Passed, as being Feed Flours, etc.....	12 samples.
Genuine as to feed value, but containing noxious weed seeds.....	3 samples.
Below standard value.....	4 samples.

Total..... 189 samples.

I would respectfully advise publishing this report as Bulletin No. 311.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1914.							
Dec. 30	Middlings...	54241	I. B. Shaffuer & Co. Ltd., Halifax, N. S.	2 lbs.	Nil.	Ogilvie M. Co., Montreal.	Mfrs....
" 30	" ..	54242	" "	2 " ..	"	St. Lawrence M. Co., Montreal.	"
" 31	" ..	54243	F. A. Shaw, Halifax, N. S.	2 " ..	"	Campbell M. Co., Toronto.	I. B. Shaffuer Co., Halifax.
" 31	" ..	54244	G. A. Redmund & Co., Hali- fax, N. S.	2 " ..	"	T. H. Taylor, Ltd. Chatham, Ont.	Mfrs.....
1915.							
Jan. 11	" ..	54245	Wentzell's Ltd., Halifax, N. S.	2 " ..	Nil.	Lake of the Woods M. Co., Brant- ford, Ont.	"
" 11	" ..	54246	A. & W. Smith & Co., Hali- fax, N. S.	2 " ..	"	Quaker Oats Co., Peterboro, Ont.	"
" 11	" ..	54247	" "	2 " ..	"	Maple Leaf M. Co., Canada.	"
" 11	" ..	54248	J. D. Stewart, Halifax, N.S.	2 " ..	4	McLeod M. Co., Stratford, Ont.	Hunt & Nelson, Halifax, N. S.
" 14	" ..	54249	Cross & De Wolfe, Kent- ville, N. S.	2 " ..	Nil.	Hunt Bros., Lon- don, Ont.	Mfrs.....
" 15	" ..	54250	Wentworth Stores, Windsor, N. S.	2 " ..	5	St. Lawrence M. Co., Montreal.	"

DISTRICT OF PRINCE EDWARD ISLAND—

1914.							
Oct. 24	Shorts.....	60161	Beer & Goff, Charlottetown, P. E. I.	3 lbs.	6	Ogilvies, Montreal.	.....
" 28	Middlings..	60162	A. Horne & Co., Charlotte- town, P. E. I.	3 " ..	.....	Canada M. Co., Ltd., Lake of the Woods.	.....
" 28	" ..	60163	Auld Bros., Charlottetown, P. E. I.	3 " ..	.....	Woodburn M. Co., Glencoe, Ont.	.....
" 28	" ..	60164	" "	3 " ..	.....	The Maple Leaf M. Co. Toronto.	.....

DISTRICT OF NEW BRUNSWICK—

Nov. 11	Middlings..	59626	W. J. Alexander, St. John, N.B.	3 lbs.	15	Maple Leaf M. Co., Ltd., Ont.	.....
" 11	" ..	59627	C. H. Perters Sons, St. John, N.B.	3 " ..	15	Campbell F. M. Co., Toronto & Peter- boro.	.....
" 13	" ..	59628	P. Nase & Son, St. John, N.B.	3 " ..	15	Lake of the Woods M. Co., Ltd., Ont.	.....

SESSIONAL PAPER No. 14

MIDDLEINGS (SHORTS.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks, and opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per ounce.		

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	15.39	3.72	6.65	47 Lambs' quarters, 1 Pepper grass.	54241	Genuine
.....	16.20	4.74	6.75	None.....	54242	"
"Bull Rush" Brand.....	19.00	4.40	8.75	"	54243	"
.....	18.45	4.41	7.75	"	54244	"
.....	17.35	4.36	8.70	"	54245	"
.....	19.65	4.84	8.55	"	54246	"
.....	17.30	4.48	8.65	"	54247	"
Sold as Shorts.....	15.70	4.10	10.60	1 Lambs' quarter, 3 chess	54248	Some excess fibre, Pass.
.....	16.40	4.16	10.30	7 Lambs' quarters.	54249	"
.....	17.70	4.46	7.80	None	54250	Genuine

WM. A. WEEKS, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	16.60	4.16	8.15	60 Lambs' quarters, 1 Cim- quefol, 1 Tumbling Mustard, 1 evening primrose.	60161	Genuine
.....	19.15	5.68	7.55	None	60162	"
.....	15.25	4.00	8.45	"	60163	"
.....	17.05	4.42	9.05	"	60164	"

JNO. C. FERGUSON, INSPECTOR

	p. c.	p. c.	p. c.			
Maple Leaf Brand. Regis- tered.	18.90	5.20	7.0	None	58626	Genuine
Wheat, "Bull Rush" Brand	17.05	5.42	8.40	"	58627	"
Wheat	19.85	5.72	7.35	"	58628	"

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1914.							
Nov. 19	Middlings ..	59629	B. Beveridge, Andover, N.B.	3 lbs	15	Empire F.M. Ltd., St. Thomas, Ont.	
" 20	" ..	59630	Geo. T. Whelpley Estate, Fredericton, N.B.	3 "	15	Western Canada F. M., St. John, N.B.	
" 20	" ..	59631	Carrie Bros., Fredericton, N.B.	3 "	25	Robin Hood M. Ltd., Moose Jaw.	
" 26	" ..	59632	Hill Bros., St. Stephen, N.B.	3 "	15	Dominion F. M., Ltd., Montréal.	
Dec. 8	" ..	59633	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	Ogilvie M. Co., Montreal, P. Q.	
" 9	" ..	59634	The Fawcett M. Co., Ltd., Moncton, N.B.	3 "	15	Maple Leaf M. Co., Ltd., Toronto.	
" 10	" ..	59635	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	15	Empire F. M., Blenheim, Ont.	

DISTRICT OF QUEBEC CITY—

Nov. 6	Middlings ..	60729	J. B. Renaud & Cie., Quebec.	3 lbs.	....	St. Lawrence F.M. Co.	Mfrs.....
" 6	Shorts.....	60730	" " "	3 "	....	Ogilvie F. M. Co.	"
" 6	Middlings ..	60731	G. Tanguay, Quebec.....	3 "	....	Dominion F. M. Co.	"
" 6	Shorts.	60732	" "	3 "	....	Ogilvie F. M. Co.	"
" 6	"	60733	W. Carrier & Fils, Quebec..	3 "	....	" ..	" .....
" 6	Middlings ..	60734	F. Kirouack & fils, Quebec.	3 "	....	Western Canada F. M.	Manufacturer...
" 6	Shorts.....	60735	" "	3 "	....	Ogilvie F. M. Co.	"
" 9	Middlings ..	60736	P. T. Busiere, Quebec	3 "	....	Lac des Bois.....	"
" 9	Shorts	60737	" "	3 "	....	" ..	" .....
" 9	"	60738	F. E. Drolet, Quebec	3 "	....	Ogilvie F. M. Co.	"

DISTRICT OF QUEBEC PROVINCE—

Nov. 7	Middlings ..	56418	Selvio Levasseur.....	2 lbs.	4	.....	Geo. Tanguay, Quebec.
" 9	" ..	56422	D. E. Bernier.....	2 "	5	Canadian C. M., Toronto.	.....
" 2	" ..	203	Damien Hetu, St. Agathe des Monts.	3 "	9	Ogilvie's .....	.....
" 2	" ..	205	J. B. Belisle, St. Agathe des Monts.	3 "	5	St. Lawrence.....	.....
" 2	" ..	206	Noe Forget, St. Agathe des Monts.	3 "	9	Lake of the Woods .....	.....

SESSIONAL PAPER No. 14

MIDDLINGS (SHORTS.)

Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.		
<i>Concluded.</i>						
	p. c.	p. c.	p. c.			
Wheat, " Germ Feed ". . .	17.75	4.26	6.25	None	59629	Genuine.
Wheat. Reg. No. 64. Protein = 18.36. Fat = 6.04. Fibre = 7.51.	18.05	5.74	6.70	"	59630	"
Guaranteed analysis. Crude protein = 17.25. Crude Fat = 6.50. Fibre = 5.20.	20.00	6.22	6.30	"	59631	"
Wheat.	16.90	5.08	8.60	"	59632	"
Ogilvie ~ Wheat.	18.60	4.68	8.00	"	59633	"
Wheat. Reg. M. L. M. . . .	17.90	3.84	7.15	"	59634	"
Wheat.	16.35	4.80	7.15	4 False Flax	59635	Genuine. Excess vital weed seeds.

F. X. W. E. BELAND, INSPECTOR.

Wheat.	17.85	4.70	8.20	None	60729	Genuine.
Wheat.	16.75	4.01	7.30	3 lambs quarters, 1 chess 1 peppergrass.	60730	"
Wheat.	17.30	5.22	7.20	None	60731	"
Wheat.	18.85	4.82	7.65	"	60732	"
Wheat.	18.30	4.90	6.85	10 lambs quarters.	60733	"
Wheat.	17.20	5.38	6.75	None	60734	"
Wheat.	16.75	4.48	8.15	70 Lambs' Quarters, 3 Black Bindweed.	60735	"
Wheat.	18.95	4.04	6.75	None	60736	"
Wheat.	18.30	4.58	6.90	"	60737	"
Wheat.	16.00	4.44	10.35	"	60738	Some excess fibre present.

A. PELLETIER, N. CADIEUX, J. E. AUDET AND T. GENDREAU, TEMP. INSPECTORS

Wheat.	15.95	4.76	10.00	None	56418	Genuine.
Wheat.	17.85	5.90	7.05	"	56422	"
Wheat.	17.40	4.48	8.00	"	56423	"
Wheat.	18.05	5.82	7.70	"	56424	"
Wheat.	19.50	4.08	4.10	"	56425	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1914.							
Nov. 11	Middlings..	217	C. Taillon, Ste. Jerome....	3 lb..	15	Ogilvie's.....	
" 16	" ..	223	Jerome Filion, Ste. Jerome.	3 " ..	5	Macdonald & Robb ..	
Dec. 20	" ..	240	J. B. Leferne, Ste. Therese.	3 " ..	5	St. Lawrence.....	
" 20	" ..	242	Waddell & Frere, Ste. Therese.	3 " ..	5	" ..	
" 20	" ..	244	D. Cloutier, Ste. Therese....	3 " ..	6	" ..	
" 20	" ..	248	A. Delormes, Ste. Thérèse...	3 " ..	5	Ogilvie's	
Nov. 12	" ..	3714	Jos. Turgeon, Ste. Isadore...	3 " ..	5	Can. C. and F. M., Toronto.	
Dec. 3	" ..	2876	A. Cloutier, St. Odilon.....	2 " ..	5	.....	Lergeon & Gourdeau, Quebec.
" 4	Shorts.....	2884	L. J. Audet, St. Edward....	2 " ..	5	.....	Dorchester Lumber.
Nov. 25	Middlings..	2734	Arcadius Caron, Montmagny	3 " ..	6	.....	Maple Leaf Ltd., Canada.

DISTRICT OF THREE RIVERS—

Oct. 24	Shorts.....	2625	E. Barette, Joliette.....	3 lb..	5	St. Lawrence F. M. Co., Montreal.	
" 26	" ..	2626	Louis Pauze, L'Assomption	2 " ..	10	Ogilvie F. M. Co., Montreal.	
" 28	" ..	2627	Archibald Duff, Charlevoigne.	2 " ..	5	Lake of the Woods Co., Montreal.	
" 28	" ..	2628	Edm. Robillard, St. Paul l'Ermitte.	2 " ..	6	Ogilvie F. M. Co., Montreal.	
" 31	Middlings..	2695	B. Coutu, Berthierville....	2 " ..	6	St. Lawrence F. M., Montreal.	
" 31	Shorts... ..	2696	" ..	2 " ..	6	" ..	
Nov. 2	" ..	3904	G. H. Read, St. Felix de Valois.	2 " ..	5	Ogilvie F. M., Montreal.	
" 3	" ..	3905	Louis Enos, St. Felix de Valois.	2 " ..	6	St. Lawrence F. M., Montreal.	
" 3	" ..	3906	Wilfred Brissette, St. Felix de Valois.	2 " ..	6	Can. Western Fl. Co., Montreal.	
" 5	" ..	3910	Frs. Rivest, Joliette.....	2 " ..	6	Vendor	

DISTRICT OF MONTREAL—

1915.							
Jan. 8	Shorts.....	62611	C. Campbell, 748 Charlevoix, Montreal.	2 lbs.	.....	.....	W. Lamarre & Co., Montreal.
" 9	" ..	62612	Hall Bros. Rgd., 270 Moreau St.	2 " ..	.....	.....	G. et C. Cardinal, Montreal.

SESSIONAL PAPER No. 14

MIDDLEINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.		

Concluded.

	p. c.	p. c.	p. c.			
.....	16.35	3.92	7.90	2 Lambs' Quarters, 1 Peppergrass.	217	Genuine.
.....	16.85	4.24	5.25	None	223	"
.....	17.25	4.26	6.90	"	240	"
.....	18.35	4.68	8.40	"	242	"
.....	17.95	4.78	7.90	"	244	"
.....	17.65	4.34	5.95	"	248	"
.....	16.50	4.76	8.40	"	3714	"
Maple Leaf	16.25	4.00	7.20	"	2876	"
Ogilvie's	19.10	4.46	6.75	13 Lambs' Quarters...	2884	"
.....	18.10	4.32	7.60	None	2734	"

DR. V. P. LAVALLEE, INSPECTOR.

.....	16.50	4.58	8.30	None	2625	Genuine.
.....	19.05	4.28	6.60	2 Lambs' Quarters, 1 Black Birdweed, 1 Cow Cockle, 1 Peppergrass	2626	"
.....	19.15	4.88	7.25	None	2627	"
.....	18.00	4.00	6.90	10 Lambs' Quarters, 1 Peppergrass.	2628	"
.....	19.05	4.52	6.80	None	2625	"
.....	18.95	5.26	8.85	"	2626	"
.....	16.25	4.54	9.20	30 Lambs' Quarters, 3 Black Birdweed.	3004	"
.....	18.15	5.04	8.95	None	3005	"
.....	16.65	5.28	7.00	"	3006	"
.....	16.70	4.76	7.80	1 Stickweed	3010	"

D. J. KEARNEY, INSPECTOR.

.....	15.95	4.34	7.10	None	62611	Genuine.
.....	18.15	4.52	6.30	"	62612	"

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
Jan.	9	Shorts.....	62613 J. A. Roberge, 259 Moreau St.	2 lbs.	.....	.....	E. A. Barry, Montreal.
"	9	"	62614 Jos. Larcheveave, 578 Ontario St., Montreal.	2 "	.....	.....	Unknown.....
"	11	Middlings ..	62615 B. Vaillencourt, 1195 St. Lawrence Boul., Montreal	2 "	.....	West Canada F. M. Co.	.....
"	11	Shorts.....	62616 St. Louis Grain & Feed Co., 2105 St. Lawrence Boul., Montreal.	2 "	.....	.....	Unknown.....
"	11	"	62617 F. Gobeille, Cor. Maguire & Sanguinet.	2 "	.....	Dom. F. Mills.....	.....
"	11	Middlings ..	62618 " " "	.....	.....	Robin Hood, F. M.	.....
"	12	" ..	62619 O. Charbonneau, Pointe & Trembles.	2 "	5	.....	Unknown.....
"	12	" ..	62620 E. Benoit & Fils, 181 St. Paul St., Montreal.	2 "	.....	Ogilvie F. M. ....	.....

DISTRICT OF VALLEYFIELD AND EASTERN TOWNSHIPS—

1914.							
Nov.	9	Middlings ..	63021 M. K. M'Kenzie, Richmond	2 lbs.	10	M'Leod M. Co., Stratford, Ont.	.....
"	9	Shorts	63022 " " "	2 "	10	" "	.....
"	9	" ..	63023 " " "	2 "	10	Ogilvie F. M. Co.	.....
"	9	Middlings ..	63024 F. H. McKee, "	2 "	5	" "	.....
"	9	" ..	63025 " " "	2 "	5	Maple Leaf M. Co.	.....
"	10	" ..	63026 George McCracken, Danville.	2 "	5	Ogilvie F. M. Co., Ltd.	.....
"	10	Shorts.....	63027 " " "	2 "	5	" "	.....
"	10	"	63028 J. Audet, Coaticook.....	3 "	10	St. Lawrence F. M. Co., Ltd.	.....
"	10	Middlings ..	63029 " "	3 "	10	Ogilvie F. M. Co., Ltd.	.....
"	10	" ..	63030 Lovell, Bros., Coaticook..	3 "	10	Lake of the Woods M. Co., Ltd.	.....
"	17	Shorts.....	62841 Lahaie & Sons, Buckingham	3 "	10	E. A. Barry Mason.	.....
"	17	"	62842 A. Cummings, Buckingham.	3 "	.....	Lake of the Woods M. Co.	.....
"	17	Middlings ..	62843 " " "	3 "	.....	" "	.....
Dec.	9	Shorts.....	62844 D. Walker, Huntingdon....	3 "	5	West. Canada F. M. Co., Ltd.	.....
"	9	"	62845 Pringle & Stark, Huntingdon.	3 "	.....	Lake of the Woods M. Co., Ltd.	.....

SESSIONAL PAPER No. 14

MIDLINGS (SHORTS).

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

Concluded.

	p. c.	p. c.	p. c.			
.....	18.65	5.16	6.15	9 Lambs Quarters, 1 American Dragonhead, 1 Pennycress.	62613	Genuine.
.....	19.25	4.92	9.60	None.....	62614	"
.....	17.15	4.50	6.70	12 Lambs Quarters	62615	"
.....	16.70	4.10	10.10	None.....	62616	"
.....	18.95	6.34	6.95	"	62617	"
.....	17.80	5.26	6.50	"	62618	"
.....	19.05	5.48	6.75	"	62619	"
.....	19.35	5.18	8.15	"	62620	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	15.65	4.10	6.85	None.....	63021	Genuine.
.....	16.70	4.18	8.80	"	63022	"
.....	17.10	4.82	7.60	107 Lambs Quarters, 1 Catchfly and 1 Pepper grass.	63023	"
.....	17.70	4.20	6.30	None.....	63024	"
.....	16.30	5.44	8.90	"	63025	"
.....	17.10	4.26	7.75	"	63026	"
.....	17.60	4.66	7.60	40 Lambs' Quarters, 1 Western False Flax.	63027	"
.....	16.40	5.38	9.80	None.....	63028	"
.....	16.55	4.48	6.90	42 Lambs' Quarters, 1 Catchfly.	63029	"
.....	17.65	4.30	5.40	None.....	63030	"
.....	19.50	5.58	8.15	"	63041	"
.....	18.60	5.28	8.10	"	63042	"
.....	16.70	4.04	3.95	"	63043	"
.....	19.55	5.60	7.65	"	63044	"
.....	18.05	5.48	8.20	"	63045	"

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1914.							
Oct. 23	Shorts.....	63526	The Foster Bennett Co., Ltd., River Desert.	3 lb..	5	Alex. McLaren, Wakefield.	
" 24	Middlings..	63527	S. Kerr, Kemptville	3 "	10	Lake of the Woods M. Co., Keewatin.	
Nov. 3	Middlings, choice.	63528	The Western Canada F. M. Co., Ltd., Ottawa.	3 "	Nil.	Vendors.....	
" 3	Shorts.....	63529	" "	3 "	"	"	
" 3	Middlings.	63530	The Maple Leaf M. Co., Ottawa.	3 "	"	"	
" 3	" ..	63531	The Maple Leaf M. Co., Ottawa.	3 "	"	"	
" 3	Shorts	63532	The Renfrew F. M. Co., Ltd., Ottawa.	3 "	"	"	
" 4	Middlings..	63533	Lake of the Woods M. Co., Ottawa.	3 "	"	"	
" 4	" ..	63534	The Ogilvie F. M. Co., Ltd., Ottawa.	3 "	"	"	
" 4	Shorts	63535	E. Larose, 259 Cumberland St., Ottawa.	3 "	"	Wm. Scott & Co., Deschenes, P.Q.	

DISTRICT OF KINGSTON—

Oct. 29	Shorts	61590	J. A. McFarlane, Kingston.	3 lb..	5	West Canada, Ltd., Toronto.	
" 29	"	61591	" "	3 "	5	Maple Leaf Co., Ltd., Toronto.	
" "	"	61592	Kingston Milling Co., Kingston.	3 "	5	Vendors.....	
" 29	Middlings..	61593	" "	3 "	5	"	
" 29	Shorts.....	61594	Maple Leaf Co., Kingston..	3 "	5	Maple Leaf Co., Toronto.	
" 29	Middlings..	61595	" "	3 "	5	"	
" 29	Shorts.....	61596	W. F. McBroom, Kingston.	3 "	5	Ogilvie Co., Montreal.	
" 29	"	61597	Geo. Gibson, Kingston....	3 "	5	"	
" 29	"	61598	W. P. Peters, Kingston....	3 "	5	Lake of the Woods Co.	
" 29	Middlings..	61599	" "	3 "	5	Hunt Bros., London.	
Nov. 3	Shorts.....	61600	Hanley Netteville, Belleville.	3 "	5		

SESSIONAL PAPER No. 14

MIDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds, per ounce.		

J. A. RICKEY, INSPECTOR.

	p. c.	p. c.	p. c.				
.....	16.55	4.60	1.30	17 Lambs' Quarters, 7 Black Bindweed, 1 Russian Pigweed, 1 Hares ear Mustard.	63526	Genuine.	Feed
.....	18.55	4.80	6.55	None.....	63527	Genuine.	
.....	18.90	4.04	8.10	"	63528	"	
.....	18.65	6.44	4.35	"	63529	"	
Rex Brand	18.60	5.36	8.00	"	63530	"	
Maple Leaf	18.40	5.06	8.95	"	63531	"	
.....	17.90	5.36	8.00	"	63532	"	
.....	18.75	4.26	5.30	"	63533	"	
.....	15.20	5.12	5.60	"	63534	"	
.....	14.70	5.14	12.75	32 Lambs' Quarters, 1 Cinquefoil.	63535	Excess fibre.	Adulterated.

JAMES HOGAN, INSPECTOR.

.....	17.55	5.68	6.80	None.....	61590	Genuine.	
.....	17.05	4.26	9.30	"	61591	"	
.....	18.60	5.18	3.15	"	61592	"	
.....	16.75	3.34	0.75	"	61593	Fairly low.	Pass
.....	17.75	4.68	9.25	"	61594	Genuine.	Feed flour.
.....	17.15	4.28	6.00	"	61595	"	
.....	18.10	4.90	6.60	4 Lambs' Quarters, 1 Pep- pergrass, 1 Pennygrass.	61596	"	
.....	17.65	4.60	7.95	None	61597	"	
.....	19.20	4.88	5.80	"	61598	"	
.....	14.40	3.70	9.60	"	61599	Nearly up to standard.	
.....	10.75	2.11	11.05	"	61600	Excess fibre and deficiency in protein and fat.	Examination satisfactory.

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1914.							
Nov. 17	Shorts	64568	Geo. Gibb, Collingwood. . . .	3 lb..	5	Collingwood Milling Co., Ltd.	
" 17	"	64579	Barrie Milling Co., Ltd. . . .	3 "	5	Vendors	
" 18	"	64580	T. Marchand, Penetang. . . .	3 "	5	West Can. F. M. Co., Toronto.	
" 18	"	64581	George Copeland & Sons. . . .	3 "	5	Vendors.	
" 18	"	64582	W. M. Thompson, Penetang. . .	3 "	5	Ogilvie F. M. Co., Ltd., Montreal.	
" 19	"	64583	F. Rollins, Midland.	3 "	5	Robin Hood M. Co., Ltd., Moosejaw.	
" 19	"	64584	Geo. Copeland & Sons, Midland.	3 "	5	Vendors.	
" 20	"	64585	T. B. Cramp, Orillia.	3 "	5	Ogilvie F. M. Co., Ltd., Montreal.	
" 27	"	64586	Crampsey & Kelly, Queen St. East, Toronto	684 3	5	Maple Leaf M. Co., Ltd., Toronto.	
" 27	"	64587	Lake of the Woods Milling Co., Toronto.	3 "	5		

DISTRICT OF HAMILTON—

Nov. 2	Shorts	64517	E. Clarke, Orangeville.	3 lb..	5	Lake of the Woods M. Co., Montreal	
" 2	"	64518	W. A. McClean & Co., 1,000 2nd Ave. E., Owen Sound	3 "	5	The Campbell F. M. Co., Ltd., Toronto.	
" 4	"	64519	J. U. Tyson, Warton.	3 "	5	McLeod M. Co., Ltd., Stratford.	
" 5	"	64520	John Sandlos, Hanover. . . .	3 "	5	Maple Leaf M. Co., Ltd., Toronto.	
" 6	"	64521	Wm. Knechtal & Son, Hanover.	3 "	5	Vendors.	
" 6	"	64522	Walkerton Flour Mills, Walkerton.	3 "	5	Vendors.	
" 6	"	64523	C. S. Smith & McConnell, Walkerton.	3 "	5	Thos. Burrell & Sons, Pinorton.	
" 9	"	64524	A. W. Swaile, 649 Barton St. E., Hamilton.	3 "	6	Ogilvie M. Co., Ltd., Montreal.	
" 6	"	64525	A. Dymont & Son, 342 Barton St. E., Hamilton.	3 "	5	Wood M. Co., Ltd. Hamilton.	
" 10	"	64526	Kerr Milling Co., Ltd., Dundas.	3 "	5	Vendors.	

DISTRICT OF WINDSOR—

Nov. 4	Shorts	63953	W. B. Laurie, Tillonburg. . .	3 lb..	Nil	Quance Bros., Delhi	
" 4	"	63954	David Crossett, "	3 "	5	Seaforth M. Co., Seaforth.	
" 5	"	63955	M. Thorburn, Simcoe.	3 "	10	Lake of the Woods M. Co.	

SESSIONAL PAPER No. 14

MIDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds. Per ounce.		

H. J. DAGER, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	19.35	5.32	9.00	None	64578	Genuine.
.....	16.40	4.92	6.78	"	64579	"
.....	18.50	5.52	7.26	"	64580	"
.....	18.95	4.62	6.06	"	64581	"
.....	16.75	4.10	9.24	"	64582	"
.....	19.55	6.12	6.90	"	64583	"
.....	18.50	3.50	6.72	"	64584	"
.....	16.25	5.06	8.14	"	64585	"
.....	17.00	4.46	8.48	"	64586	"
.....	18.90	5.02	8.48	"	64587	"

H. J. DAGER, ACTING INSPECTOR.

.....	18.25	5.02	6.65	None	64517	Genuine.
.....	18.15	4.90	7.35	"	64518	"
.....	14.75	4.74	6.40	"	64519	"
.....	16.80	4.58	6.60	"	64520	"
.....	17.15	5.74	7.35	"	64521	"
.....	15.85	5.28	6.40	"	64522	"
.....	16.90	5.20	7.45	"	64523	"
.....	17.15	5.02	8.00	"	64524	"
.....	15.60	4.10	8.70	172 Lamb's Quarters, 2 Catchfly, 1 Plantain, 1 Hedge Nettle	64525	"
.....	20.35	5.80	9.24	None	64526	"

JOHN TALBOT, INSPECTOR.

.....	14.55	4.76	7.40	None	62862	Genuine.
.....	15.75	4.60	8.50	"	62863	"
.....	19.65	5.28	7.55	"	62864	"

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cost.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1914.							
Nov. 5	Shorts	63966	E. Edmonds, Simcoe.	3 lb.	Nil	Tavistock M. Co., Tavistock.	
" 6	"	63970	E. R. White, Aylmer, Ont.	3 "	"	T. Taylor & Co., Chatham.	
" 6	"	63971	Lewis Pierce & Sons, "	3 "	"	Empire M. Co., St. Thomas.	
" 7	"	63973	H. E. Stansell, St. Thomas.	3 "	5	" "	
" 7	"	63974	J. A. Facey, "	3 "	5	Hunt Bros., Lon- don, Ont.	
" 7	"	63975	E. Slobashy, London, East.	3 "	5	Unknown	
" 7	"	63976	Leith & Staples, "	3 "	5	Dortor & Son, Lon- don.	

DISTRICT OF MANITOBA—

Oct. 29	Shorts	61182	Ogilvie F. M. Co., Ltd., Winnipeg.	3 lbs.		Vendors	
" 29	"	61183	Western Canada F. M. Co., Ltd., St. Boniface.	3 "		"	
" 30	"	61184	Lake of the Woods M. Co., Ltd., Portage La Prairie.	3 "		"	
Nov. 3	"	61185	Western Canada F. M. Co., Ltd., Brandon.	3 "		"	
" 3	"	61186	Maple Leaf M. Co., Brandon	3 "		"	
" 4	"	61187	Leitch Bros., F. M. Ltd., Oak Lake.	3 "		"	
" 24	"	61188	The Winkler M. Co., Wink- ler.	3 "		"	
" 25	"	61189	Geo. McCulloch & Sons, Souris.	3 "		"	
" 25	"	61190	A. M. Harvie, 651 Sargent St., Winnipeg.	3 "	10	Lake of the Woods M. Co., Kee- watin.	
" 26	"	61193	Standard Hay & Feed Co., 545 Logan Ave., Winnipeg	3 "		" "	

DISTRICT OF SASKATCHEWAN—

Oct. 28	Shorts	64036	Morin & Pfeiffer, Prince Al- bert.	2 lbs.	Nil.	Hudson Bay Mills, Prince Albert.	
" 30	"	64070	G. H. Speer, Mighton & Co., Saskatoon.	3 "	"	Quaker Oats Co., Saskatoon.	
" 30	Middlings	64072	S. A. Early & Co., Saskatoon	3 "	"	Robin Hood M. Co., Moosejaw.	
" 31	Shorts	64075	Ogilvie M. Co., Regina.	2 "	"	Vendors	
" 31	"	64077	N. Sutherland, Regina.	2 "	10	Lake of the Woods M. Co., Kee- watin.	

SESSIONAL PAPER No. 14

MIDDLINGS (SHORTS).

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

Concluded.

	p. c.	p. c.	p. c.			
.....	15.85	4.52	8.30	None.	63966	Genuine.
.....	17.25	4.44	8.80	"	63970	"
.....	18.60	5.08	5.85	"	63971	"
.....	18.85	5.52	6.75	"	63973	"
.....	18.20	5.58	9.15	26 False Flax, 1 Tumb- ling Mustard.	63974	Genuine. Excess vital weed seeds
.....	17.10	5.46	7.75	None.	63975	Genuine.
.....	17.85	4.82	7.49	"	63976	"

A. C. LARIVIERE, INSPECTOR.

.....	19.25	4.78	7.00	None.	61182	Genuine.
.....	18.67	5.26	7.90	"	61182	"
.....	18.20	4.56	7.50	"	61184	"
.....	19.30	5.02	6.65	"	61185	"
.....	18.85	4.64	8.60	"	61186	"
.....	18.80	4.88	8.85	"	61187	"
.....	17.50	3.92	8.33	"	61188	"
.....	19.30	4.38	8.85	"	61189	"
.....	18.90	4.74	8.45	"	61190	"
.....	19.20	4.90	8.00	"	61190	"

L. H. HALL, INSPECTOR.

.....	15.80	4.44	6.42	9 Linds quarters, 1 black linseed.	64696	Genuine.
.....	18.40	4.60	7.14	35 Linds quarters, 1 Black linseed.	64670	"
.....	19.10	4.54	6.50	None.	64672	"
.....	17.00	4.12	9.15	"	64673	"
.....	18.15	4.80	6.95	"	64677	"

* Manufacturers explain the presence of weed seeds by a break down of their machinery.

7 GEORGE V, A. 1917

BULLETIN No. 311—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1914.							
Nov.	2	Shorts	64081 T. W. McGregor, Mortlach.	2 lb..	10	West. Canada F. M. Co., Winnipeg	
"	2	"	64082 E. C. Bissell, Mortlach.	2 " .	Nil.	Vendor	
"	3	"	64084 Ogilvie Milling Co., Pense.	3 " .	"	Ogilvie M. Co., Winnipeg.	
"	4	"	64087 Lake of the Woods M. Co., Moose Jaw.	2 " .	"	Lake of the Woods M. Co., Winnipeg	
"	4	Middlings . .	64088 Chas. H. Boyd	3 " .	"	Robin Hood M. Co., Moose Jaw.	

DISTRICT OF ALBERTA—

Nov.	19	Shorts	52044 I. E. Love, Calgary	3 lb..	5	Ogilvie, Medicine Hat.	
"	20	"	52045 Erl & Anderson, Calgary . .	3 " .	Nil.	" "	
"	20	"	52046 Thos. Fletcher, Calgary . . .	3 " .	"	Robin Hood Mills, Ltd., Calgary.	
"	24	"	52047 Stettler Flour Mills, Stettler	3 " .	"	Vendors	
"	25	"	52048 L. E. Martin, Camrose . . .	3 " .	"	Union Supply Co., Nor. Battleford.	
"	25	"	52049 P. M. Laing, Camrose . . .	3 " .	"	Robin Hood Mills, Ltd., Calgary.	
"	25	"	52050 MacEachern & McCallum, Wetaskiwin.	3 " .	"	Vendors	
"	27	"	52051 Nicholson & Switzer, Lacombe.	3 " .	"	Ellison M. and E. Co., Lethbridge.	
"	27	"	52052 " "	3 " .	"	Robin Hood Mills, Ltd., Calgary.	
"	30	"	52053 Crown Feed and Produce Co, Calgary.	3 " .	"	Lumsden M. and G. Co., Lumsden, Sask.	

DISTRICT OF ROCKY MOUNTAINS—

Nov.	10	Middlings (Shorts.)	61714 J. R. Randall, Trail	3 lbs..	20	Robin Hood Mills, Calgary.	
"	23	Shorts	61729 Hudson's Bay Co., Kamloops.	3 " .	15	Quaker Oats Co., Saskatoon.	
"	23	"	61734 R. McCall, Kamloops	3 " .	15	Ogilvie M. Co., Medicine Hat.	
Dec.	1	Middlings . .	61737 Taylor M. & E. Co., Nelson.	3 " .	15	Robin Hood Mills, Calgary.	
"	1	Shorts	61738 A. S. Horswill & Co., Nelson.	3 " .	15	Ellison M. & E. Co., Lethbridge.	

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MIDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.		

Concluded.

	p. c.	p. c.	p. c.			
Reg. No. 83	18.75	5.40	9.15	None	64081	Genuine.
.....	19.15	3.02	3.40	"	64082	Fat, low. Pass.
.....	17.80	4.58	8.85	"	64084	Genuine.
.....	18.90	5.22	6.40	"	64087	"
.....	19.75	5.84	6.35	"	64088	"

A. W. R. MARKLEY, INSPECTOR.

.....	20.95	5.22	7.60	4 Lambs' Quarters, 1 Tumbling Mustard.	52044	Genuine.
.....	20.95	4.48	7.40	7 Lambs' Quarters ..	52045	"
.....	19.10	5.00	6.50	None	52046	"
.....	13.25	2.74	0.85	"	52047	Protein and fat too low. Feed flour. Doubtful.
.....	17.75	4.28	8.80	"	52048	Genuine.
.....	20.65	4.46	6.10	"	52049	"
.....	15.80	5.12	4.50	"	52050	"
.....	18.00	4.16	5.55	14 Lambs' Quarters, 21 Wormseed Mustard.	52051	"
.....	18.80	4.20	7.05	None	52052	"
.....	18.70	5.44	7.65	"	52053	"

THOS. PARKER, INSPECTOR.

.....	19.15	4.30	6.70	None	61724	Genuine.
.....	18.85	5.30	5.95	20 Lambs' Quarters ..	61729	"
.....	20.40	4.28	7.65	None	61734	"
.....	18.60	4.68	7.20	"	61737	"
.....	20.55	4.46	8.00	"	61738	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Conts.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1914.							
Oct. 30	Middlings.	55126	Brackman Ker M. Co., Ltd., Vancouver.	3 lbs.	10	Robin Hood Mills, Calgary.	
" 3	"	55127	Alberta Pacific Grain Co., Vancouver.	3 "	...	Lake of the Woods M. Co., Keewatin.	
" 3	"	55128	A. E. Burnett & Co., City Market, Vancouver.	3 "	5	"	
" 3	"	55129	F. T. Vernon, 255 Broadway, Vancouver.	3 "	10	"	
" 3	"	55130	Vancouver M. & G. Co., Ltd., Vancouver.	3 "	...	Vendors.	
" 31	"	55131	McLellan, McCarter Co., Ltd., 1605 6th Ave. W., Vancouver.	3 "	10	Robin Hood Mills, Calgary.	
" 31	"	55132	" " "	3 "	10	"	
Nov. 3	"	55133	Brackman Ker M. Co., Ltd., 535 Front st., New Westminster.	3 "	...	"	
" 3	"	55134	Grain Growers B. C. Agency, New Westminster.	3 "	...	Vendors.	
" 4	"	55135	Brackman Ker M. Co., Ltd., Vancouver.	3 "	10	Magrath M. Co., Magrath, Alta.	

DISTRICT OF VICTORIA—

Nov. 13	Shorts.	62031	Sylvester Feed Co., 709 Yates St., Victoria.	3 lbs.	...	Ogilvie M. Co. Medicine Hat.	
" 13	"	62032	Brackman Ker, M. Co., 1420 Broad St., Victoria.	3 "	...	West. Canada F. M. Co., Brandon.	
" 13	Middlings.	62033	" " "	3 "	...	Royal Standard Mills, Vancouver.	
" 13	"	62034	Scott & Peden, cor. Store & Cormorant St., Victoria.	3 "	7	Robin Hood Mills, Calgary.	
" 13	Shorts.	62035	" " "	3 "	7	Ogilvie M. Co., Winnipeg.	
" 13	"	62036	" " "	3 "	7	Ellison M. & E. Co., Lethbridge.	
" 23	"	62037	S. Leiser & Co., Ltd., 527 Yates St., Victoria.	3 "	7	Vancouver M. & G. Co., Ltd., Vancouver.	
" 24	"	62038	Vancouver M. & G. Co., Ltd., Kingston St., Victoria.	3 "	7	" " "	
" 24	Middlings.	62039	" " "	3 "	7	" " "	

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MIDDLEINGS (SHORTS.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital weed seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

E. J. MORGAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	16.85	3.06	0.65	None	55126	Fat too low. Feed Flour. Pass.
.....	17.65	3.42	1.75	"	55127	Fat low. Feed Flour. Pass.
.....	20.70	4.36	4.65	"	55128	Genuine.
.....	20.70	4.28	4.20	"	55129	"
.....	18.20	2.99	0.65	"	55130	Fat low. Feed Flour. Pass.
.....	16.60	3.04	1.65	"	55131	Fat low. Feed Flour. Pass.
.....	17.70	3.64	1.90	"	55132	Genuine. Feed Flour.
.....	15.70	3.46	3.95	"	55133	Genuine.
.....	19.80	3.90	4.20	"	55134	"
.....	15.60	3.96	0.90	"	55135	" Flour. Feed

D. O'SULLIVAN, INSPECTOR.

.....	20.50	5.78	6.90	None	62031	Genuine.
Reg. No. 63.....	16.25	4.16	10.22	"	62032	Some excess fibre Pass.
.....	17.00	3.04	0.90	"	62033	Fat low. Feed flour. Pass
.....	19.40	4.84	7.50	"	62034	Genuine
.....	19.15	5.54	7.25	"	62035	"
.....	21.10	4.96	8.00	116 Lard & Quarters. 14 Tumbling Mustard.	62036	Genuine. Excess, vital weed seeds.
.....	17.15	4.44	9.20	None	62037	Genuine.
.....	14.80	4.08	7.45	"	62038	"
.....	17.40	2.82	4.05	"	62039	Fat low. Pass.

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APPENDIX C.

BULLETIN No. 312—MOLASSES.

OTTAWA, April 15, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report of work done upon one hundred and forty (140) samples purchased by our inspectors throughout Canada, under the name of Molasses (Melasse).

Molasses has never been defined in Canada under the Adulteration Act; and the present inspection appears to show that the term has no very definite signification for the consuming public. This I infer from the fact that no complaints have been received from consumers, although the character of the article, as evidenced by this report, is extremely variable. The content of total solids varies from above 80 to less than 70 per cent; reducing sugars from 37 to less than 10 per cent; cane sugar from 54 to less than 20 per cent; and ash (mineral matter) from above 9 to less than 1 per cent.

Any complaints which have been received concerning molasses have come from outside sources, and charge that an article not considered fit for human consumption at the place of its production is supplied to the public of Canada. The following statement, made to the Commissioner of Trade and Commerce, by a high authority in Barbados, deserves consideration.

"That 'black strap' molasses is not fit for human food and it seems to me that the Canadian Government should let the people know what they are buying as syrup or molasses. Nearly every civilized country now has its pure food laws and I think the Canadian Government should compel those manufacturers who treat 'black strap' molasses in such a way as to give it the appearance of High Grade syrup to so mark their product that any purchaser will know what he is getting. I am sure that if Canadians in general knew the nature of the 'black strap' molasses they would not think it fit for human food. I understand that even the working classes in Canada insist upon having the highest quality of meat and even the choicest cuts. Why then should they be willing to buy molasses and syrup which at best is fit for nothing but cattle food? We in Barbados are very careful to prevent inferior molasses being exported as high-grade and we have very strict laws to prevent the mixing of molasses. I may call your attention to the Molasses Mixing Prohibition Act enacted by the Governor, Council and Assembly of Barbados in 1912 which provided that any one responsible for mixing fancy or muscovado molasses with vacuum pan molasses with intent that the same may be sold or exported in that state or anyone who sells or exports any fancy or muscovado molasses so mixed shall be liable to a penalty not exceeding one hundred pounds for the first offence and for the second or any subsequent offence shall be liable on summary conviction to be imprisoned for a period not exceeding six months with or without hard labour. Any person who sells or exports any vacuum pan molasses in any package not branded or marked in a legible and conspicuous manner 'V.P. Molasses' is liable to a penalty not exceeding fifty pounds. It is provided that all penalties imposed by this Act shall be recovered in a summary manner before a police magistrate on the complaint of any person and shall be paid one-third

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to the complainant, one-third to the informer if any other than the complainant, and the residue into the public treasury to the credit of the general revenue. The informer's share is paid to the Inspector General of Police if the Inspector General of Police states in writing that there is an informer who does not desire his name to be disclosed. If the Canadian Government were equally careful to prevent the mixing of molasses and the sale of inferior grades of molasses and syrups however manufactured except when marked in such a way that the purchaser would know exactly what he is getting I believe that we could easily find a market in Canada for all the muscovado molasses and cane syrup we can produce in Barbados."

The results of analysis enclosed, do not furnish any evidence which would stamp the article sold in Canada as being in any way harmful to the health of the consumer. Examination of the ash for heavy metals (lead, zinc, etc.) fails to reveal these in more than harmless and negligible traces. The presence of sulphurous acid, used as a bleaching agent, is usually declared on the label; and is not present in amount that can be regarded as dangerous to health.

It remains quite true, however, that from the æsthetic point of view, as well as in regard to nutrient values, the samples now reported represent very different food substances, which, in all fairness to the consumer, as well as to the producer, should bear distinguishing names. It is impossible, of course, for this department, to dictate the use of language; and it may be well to inquire as to the meaning of the word *molasses*, as used in commerce. The following explanation is quoted from Wiley's "Foods and their Adulteration," second edition, p. 477:

"*Molasses*.—The term 'molasses' is properly applied to the saccharine product which is separated from sugar in the process of manufacture. It is well to clearly discriminate in the use of the term in order that no confusion or misunderstanding may arise. To this end the terms 'syrup' and 'molasses' may be contrasted. A syrup is the direct product of the evaporation of the juice of a sugar-yielding plant or tree without the removal of any of the sugar. The term molasses applies to the same process with the exception of the fact that sugar has been removed at least partially by crystallization and some kind of mechanical separation of the crystals from the remaining liquid. Molasses, therefore, to use a term employed in chemistry, may be considered the 'mother liquid' which has produced the crystallization of the sugar. The production of molasses has already been sufficiently described in the article on sugar making. The molasses is either separated by gravitation as in the old style of drying sugar or, as at the present time, almost exclusively by centrifugal action. The molasses naturally contains the substances in solution or suspension which are not retained upon the gauze of the centrifugal. It differs from the total mass of evaporated sugar liquid only in the fact that a large portion of the sucrose or crystallizable sugar has been separated. The sugar juices of the cane and sorghum contain considerable quantities of sugar of a kind different from sucrose or common sugar, namely, an invert sugar, a 'reducing sugar', as it is called, which consists usually of about equal parts of dextrose and levulose. During the process of manufacture small portions of the sucrose are converted into sugar of this kind thus increasing its quantity. In the final crystallization there is always a portion of sugar uncrystallized remaining as a viscous liquid in contact with the crystallized particles. This natural invert sugar which is in the juice, the small portion formed from the sucrose during the process of manufacture, and the part of sucrose remaining uncrystallized in the mother liquid constitute the molasses. In the washing of sugar the water which is used also passes into the molasses, thus diluting it somewhat from its natural consistence. In the sugar refinery the molasses is made up of practically such materials as just mentioned, but inasmuch as the separation of the sugar is more complete the other portions of the molasses, namely, the mineral salts, particularly appear in a very much larger proportion than in the ordinary molasses as will be seen by the analysis of these bodies.

"*Sugar Cane Molasses*.—Since the introduction of modern processes of making sugar, namely the vacuum pan and centrifugal process, the character of molasses from

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the sugar cane factory has constantly deteriorated. This is a natural deterioration due to the improvement in the method of sugar making. Much larger quantities of sugar are now obtained in a crystallized state than formerly. The molasses is to this extent impoverished and the impurities contained therein increased proportionately. It is quite common now in the process of manufacture of sugar from sugar cane to secure at least three crystallizations.

"First Molasses.—When the sugar is crystallized in the vacuum pans and separated from the molasses in the centrifugal the product which is obtained is called 'first molasses.' Usually this molasses is diluted to a sirup and reboiled in connection with the clarified juices direct from the sugar cane and thus a second portion of sugar is obtained or the molasses may be boiled separately and a second crystallization of the sugar separated by the centrifugal. The molasses from this product is called 'second molasses' and is inferior in quality to the first molasses.

"Third Molasses.—The second molasses is reboiled to a thick consistency, placed in wagons, and transferred to a warm room where it is allowed to remain, sometimes for two or three months, when a third crystallization takes place. The sugar from this crystallization is separated as usual by the centrifugal, and a third molasses produced of still greater inferiority. Thus, in the best sugar factories high-grade molasses is not made in the United States but only that of inferior quality. This molasses is largely used for fermentation, or is fed to the mules on the plantations. It is also employed to a certain extent for mixing purposes as indicated above.

ANALYSIS of First, Second and Third Molasses.

Grades.	Total Solids.	Sucrose.	Dextrose.	Levulose.	Ash.	Albuminoids.	Amids.	Acids and Gums.
	%	%	%	%	%	%	%	%
First.....	80.00	53.60	8.76	8.00	4.00	0.20	0.94	4.20
Second.....	80.00	41.70	12.20	12.50	5.35	0.25	1.50	6.50
Third.....	80.00	31.70	15.00	16.50	6.30	0.30	2.00	8.20

"The increasing content of dextrose and levulose, of ash, acids, and gums, and the decreasing content of sucrose or pure sugar are characteristic of the second and the third molasses.

"The above analyses show the progressive change in molasses due to the separation of the successive portions of sugar and indicate the lowering of the quality of the molasses, at least for food purposes, as the separation of the sugar becomes more complete. It is evident that in the manufacture of sugar in this way, in which very probably an effort is made to get the highest possible yield, the resulting final molasses is a substance quite unfit for human consumption.

"Sugar-house Molasses.—Attention has already been called to the production of sugar-house molasses or sugar refinery molasses. This is a product which in its physical appearance is far superior to the third molasses of the sugar factory and this superiority is due to the fact that all suspended matter in the refined molasses has been removed by filtration. In so far as soluble material which are not food is concerned, however, the refinery molasses contains even larger proportions than the sugar factory molasses. The refinery molasses is not usually considered suitable for food except when diluted as has been before indicated in the way of mixing sirup."

In 1909 (See Bulletin No. 177) I reported upon 75 samples purchased as table syrups. The majority of these were found to be mixtures of glucose (corn syrup) and cane sugar syrups, or molasses, the latter added to give increased sweetness and greater palatability. Most of these articles are very desirable foods; and it may be of interest to cite the opinion of Dr. Wiley in regard to this class of foods:

" *Mixed Syrups*.—By far the greater part of the syrups used in the United States are mixtures of two or more saccharine substances. The glucose of commerce is the base and perhaps chief constituent of the most of these mixtures. The glucose, being colourless and of a thick body, forms an ideal base as far as physical properties are concerned, for a table sirup. The quantity used varies very largely, but in general the glucose constitutes by far the larger percentage of the mixed product. Since glucose has only a very slightly sweet taste and is devoid of the general palatable properties which make a sirup attractive, it is coloured and flavoured with the product of the sugar cane or the maple tree. Sorghum sirup is also used very extensively in mixing. The process of mixing is an extremely simple one. The glucose is warmed until it is easily workable and the added syrups or molasses which are used for colouring and flavouring mixed intimately with it. In large factories this is done by mechanical mixers while in a small way it may be done by hand. Instead of glucose, one sirup itself may be used as the base and mixed with another for flavour, as, for instance, in the case of mixed maple sirup. Very commonly the brown sugar is melted with water and this is used as a base for the formation of syrups. Whichever may be the case the principle of the process remains the same, namely, using as the base a cheaper and has palatable material. From a dietetic and commercial point of view there can be no valid objection raised to this method of mixing syrups. The product is as a rule, attractive, palatable, and wholesome.

" Attention has already been called to the fact that the final molasses in the sugar refinery, after all the sugar has been extracted that can possibly be gotten out by the most approved modern process, is used very extensively for mixing purposes. This molasses has a very high content of soluble salts, reaching often 8 per cent or more, which give a distinct flavour and character. It also has acquired a certain flavour quite distinct from cane sirup, which gives it a peculiar value as a flavouring agent. It is commonly known as 'refiner's sirup' and is a clear product free from suspended matter by reason of its repeated filtration. It can thus be mixed with glucose and forms a bright mixture, devoid of suspended matter and turbidity, and is attractive to the eye. Ten per cent of molasses of this kind added to a glucose will make a mixture which is attractive and saleable, the objectionable qualities of each ingredient being obscured. The other products which are used for mixing with the glucose in the manufacture of table sirup consist of the molasses obtained from cane sugar factories or the syrups made directly from the sugar cane and sorghum. All these bodies have valuable mixing properties and small quantities of them are sufficient to give colour and flavour to the mixed product."

It will be evident from what has been said that there exist different grades of molasses, some containing so much sugar (sucrose) and so little mineral matter (ash) as to possess a high food value, and to be very desirable foods. The final product of the treatment of sugar cane juice, is, on the other hand, so poor in residual sugar, and so loaded with mineral matters, added during the processing for removal of sugar, as to be a very questionable article of diet. This product, otherwise known as *treacle* or *black strap*, finds its proper place as a cattle food, or as material for the production of alcohol. Modern methods of sugar production are such as to render this final product much less desirable as a food than formerly; and, if sold for human food at all, it should certainly be known by a specific and truly distinguishing name. The word *molasses* is evidently understood to stand for a perfectly edible article, and should therefore be defined in such a way as to exclude *black strap*. This may be most easily done by requiring that molasses shall contain not less than a fixed minimum amount of sugar, and not more than a fixed maximum amount of ash. Also that it shall be entirely free from metallic impurities, and shall not contain dangerous amounts of sulphurous acid, or other foreign matter.

The standards for molasses recommended by the Washington authorities, are as follow:

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"Molasses is the product left after separating the sugars from massecuite, melada, mush sugar or concrete, and contains not more than twenty-five (25) per cent of water, and not more than five (5) per cent of ash."

These standards are satisfactory so far as they go; but I think that they might be made still more definite, to advantage. The present report will serve the purpose of giving information in regard to molasses, as found in the markets of Canada; and will supply a basis for further consideration of the matter, with a view to recommending satisfactory standards.

Of the 140 samples reported, 75 contain less than 40 per cent of cane sugar (sucrose), and should, I think, on this account, be considered as doubtfully suited for human food under the name molasses; 38 samples contain more than 5 per cent of ash, and would undoubtedly be more correctly offered as *black-strap* than as molasses. These decisions can only be regarded as conditional, until such time as legal standards are established.

I beg to recommend publication of this report as Bulletin No. 312.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Vendor as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Jan. 11	Molasses...	54231	Cahill & Co., Halifax, N.S.	1 qt.	14	Unknown.....	R. B. Seaton & Co. Halifax, N.S.
" 12	" ...	54232	G. P. Mitchell & Sons, Halifax, N.S.	1 "	Nil.	"	J. T. Dew, Antigua, W.I.
" 12	" ...	54233	R. B. Seaton & Co., Halifax, N.S.	1 "	10	James & Swan, Barbadoes, W.I.	Manufacturer.....
" 12	" ...	54234	T. F. Courtney & Co., Halifax, N.S.	1 "	13	Unknown.....	Dom. Molasses Co. Halifax.
" 12	" ...	54235	R. N. McDonald Estate of Halifax, N.S.	1 "	12	"	" "
" 12	" ...	54236	E. H. Crease & Sons, Halifax, N.S.	1 "	13	"	G. P. Mitchell & Sons, Halifax.
" 18	" ...	54237	Dominion Molasses Co., Halifax, N.S.	1 "	Nil.	"	Brotherson Estate, St. Kitts, B.W.I.
" 18	" ...	54238	" " " "	1 "	"	"	S. P. Musson, Barbadoes.
" 18	" ...	54239	" " " "	1 "	"	"	"
" 18	" ...	54240	" " " "	1 "	"	"	G. F. Huggins, Port of Spain, Trinidad, B. W. I.

DISTRICT OF NOVA SCOTIA—

1914.							
Dec. 5	Molasses. . .	65812	The 2 Barkers Ltd., New Glasgow.	1 qt.	12	Unknown.....	McCulloch, Creelman & Urquhart Truro, N.S.
" 5	" ...	65813	A. A. McDonald, New Glasgow.	1 "	14	Mitchell Molasses Co., Barbadoes, W.I.	G. P. Mitchell, Halifax.
" 5	" ...	65814	James McArthur, New Glasgow.	1 "	15	S. P. Musson & Sons, Barbadoes, W.I.	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 24	Molasses...	60136	Stewart & Sons, Charlottetown, P.E.I.	3 jars.	34	.....	Carvell Bros., Charlottetown.
" 24	" ...	60137	Jenkins & Sons, Charlottetown, P.E.I.	3 "	48	.....	" "
" 27	" ...	60138	Coffin & Co., Charlottetown, P.E.I.	3 "	35	.....	R. E. Mutch & Co., Charlottetown.
27	" ...	60139	J. C. Crabbe, " "	3 "	35	Nicholson & Meserney, Charlottetown.
" 27	" ...	60140	W. W. Walker, " "	3 "	48	Leacock & Co., Barbadoes.

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MOLASSES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar.	Ash.		

R. J. WAUGH, INSPECTOR.

	p.c.	pc.	p.c.	p.c.	p.c.	p.c.	p.c.	
Porto Rico.....	23.30	76.70	12.72	47.52	60.24	1.00	15.46	54231
Sold as pure	27.65	72.35	13.84	52.68	66.52	2.86	12.77	54232
" "	27.80	72.20	30.56	34.92	65.46	1.20	15.54	54233 Sucrose low
" "	26.50	73.50	20.74	41.80	62.51	1.44	9.52	54234
Fancy Barbados.....	26.65	73.35	21.24	40.41	61.68	1.14	10.53	54235
" "	24.30	76.70	31.28	33.92	65.20	1.60	9.90	54236 Sucrose low.
Fancy St. Kitts	23.58	76.42	26.54	38.44	64.98	1.08	10.36	54237
Fancy B. W. I	22.20	77.80	30.14	36.08	66.22	0.98	10.60	54238
Bright Fancy	27.90	72.10	16.84	42.20	59.04	1.32	10.74	54239
Trinidad	25.30	74.70	19.36	42.00	61.36	5.12	8.22	54240

W. A. PETIPAS, TEMP. INSPECTOR.

.....	26.66	73.34	19.20	44.40	63.60	1.60	8.14	65812
.....	26.56	73.44	26.56	43.20	69.76	1.86	1.82	65813
.....	27.51	72.49	22.36	45.00	67.36	1.92	3.21	65814

WM. A. WEEKS, INSPECTOR.

.....	26.83	73.17	22.76	34.52	57.28	2.80	12.99	60136 Sucrose low
.....	20.93	79.07	34.84	32.36	67.20	2.04	9.83	60137
.....	26.88	73.12	22.36	42.20	64.56	2.16	6.40	60138
.....	30.85	73.15	23.12	36.48	59.60	1.34	12.21	60139
.....	26.73	73.27	21.80	40.44	62.24	1.12	9.91	60140

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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher

DISTRICT OF NEW BRUNSWICK—

1914.							
Nov. 10	Molasses....	59616	2 Barkers, Ltd., St. John, N.B.	1 qt..	10	.....	Crosby Molasses Co., St. John, N.B.
" 11	"	59617	N. J. Alexander, St. John, N.B.	1 "	15	.....	Baird & Peters, St. John, N.B.
" 20	"	59618	M. E. Doohan, Fredericton, N.B.	1 "	15	.....	Jones & Schofield, St. John, N.B.
Dec. 8	"	59619	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	15	.....	Baird & Peters, St. John, N.B.
" 10	"	59620	J. B. Snowball Co., Ltd., Chatham, N.B.	1 "	15	.....	" "

DISTRICT OF QUEBEC CITY—

Nov. 3	Molasses ...	60714	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 qt..	15	Musson & Son, Barbados.	N. Turcotte & Cie,
" 3	"	60715	" " " "	1 "	15	" " "	Gagnon & Garnet.
" 4	"	60716	A. Grenier, 94 Rue St. Jean, Quebec.	1 "	15	.....	Joseph & Co.
" 5	"	60717	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1 "	15	.....	Turcotte & Frere..
" 5	"	60718	A. Pichette, 176 Rue D'Orchester, Quebec.	1 "	15	.....	J. B. Renaud & Cie.

DISTRICT OF QUEBEC PROVINCE—A. PELLETIER, T. GENDREAU,

Nov. 4	Molasses. ...	56403	Dame Hector, Hudon. ...	3 pts.	20	M. Lanning & Co., Barbados.	.....
" 4	"	56407	Abraham Kilallah, Hudon	3 "	20	Jones & Swan....	Joseph & Cie, Quebec.
" 6	"	56408	Philippe Bourgoïn, Price..	3 "	13	S. P. Musson, Barbados.	.....
" 6	"	56411	Philias Cote, St. Octave...	3 "	19	St. Lucie, Barbados.	.....
" 6	"	56413	Louis M. Langlais, St. Octave.	3 "	20	.....	.....
" 21	"	2725	Henri Fournier, Cap St. Ignace.	1 qt	15	.....	J. B. C. Letellier, Quebec.
" 21	"	2727	Jos. M. Dube, Cap St. Ignace.	1 "	15	.....	Gagnon & Garent, Quebec.
" 23	"	2730	Jos. Fournier, St. Thomas, P.Q.	1 "	15	.....	N. Rioux & Cie, Quebec.
" 24	"	2733	Jos. Breton, St. Pierre...	1 "	15	.....	" " "

SESSIONAL PAPER No. 14

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugars.	Sucrose.	Total Sugar.	Ash. Organic mat- ter other than Sugar.		

JNO. C. FERGUSON, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Barbados, Fancy	26.05	73.95	22.76	39.92	62.68	3.80	7.47	59616
Barbados	25.66	74.34	13.64	46.24	64.88	2.46	7.00	59617
Barbados, Fancy	26.34	73.64	20.32	41.98	62.20	2.86	8.58	59618
"	25.86	74.14	22.76	38.04	60.80	2.20	11.14	59619
Brand "Red Band."	25.86	74.14	23.12	43.68	66.80	1.30	6.04	59620
								Sucrose low.

F. X. W. E. BELAND, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Barbados	26.83	73.17	20.48	40.44	60.92	1.14	11.11	60714
Barbados	31.23	64.77	37.36	16.68	54.24	1.82	12.71	60715
Barbados, Choice	31.13	68.87	12.12	46.60	58.72	2.96	7.19	60716
Barbados, "Beaver" Brand.	26.88	73.12	14.52	42.80	57.30	1.96	13.84	60717
Extra Fancy Molasses.	26.88	73.12	21.64	41.24	62.88	1.32	8.92	60718
								Sucrose very low.

O. BROCHU, J. ALDET AND N. GADIEUX, TEMPORARY INSPECTORS.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Barbados	26.81	73.19	18.08	42.40	60.48	1.96	10.75	56403
Barbados	26.71	73.29	21.64	43.80	65.44	1.26	6.66	56407
Barbados	27.70	72.24	20.24	31.20	60.48	0.80	10.96	56410
Barbados	26.96	73.04	23.32	39.64	63.18	0.82	9.04	56411
Barbados	30.85	69.15	23.72	37.08	60.80	1.86	6.55	56412
Barbados	27.38	72.62	20.68	40.04	60.72	0.64	11.96	57220
Barbados	26.41	73.59	24.46	37.08	61.56	2.24	9.67	57221
Barbados	27.96	72.04	11.20	47.60	58.80	1.86	11.34	57222
Barbados	26.08	73.92	21.64	43.20	64.84	1.20	7.96	57223
								Sucrose low.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1914							
Oct.	27	Syrup Ami.	2571 Joseph Dinelli, Armagh...	1 qt.	15	.....	Turcotte & Frère, Quebec.
"	27	" Fancy Barbados.	2572 " " "	1 "	15	.....	N. Rionx, Quebec.
"	27	Fancy molasses Barbados.	2573 Jos. Langlois, Armagh...	1 "	12	Manning & Co.	Turcotte & Frère.
"	27	Syrup molasses.	2582 Cléophas Beaudoin, Armagh.	1 "	15	.....	Quebec Preserving Co., Quebec.
"	27	Molasses	2587 Arthur Fredette Armagh.	1 "	13	.....	N. Turcotte & Cie., Quebec.
Nov.	9	"	3701 A. J. Caillonette, Ste. Justine.	1 "	15	.....	Quebec Preserving Co., Quebec.
"	10	"	3705 Jos. Doyon, Ste. Justine.	1 "	15	.....	J. B. Renaud.
"	10	"	3706 " " "	1 "	15	.....	Quebec Preserving Co., Quebec.
"	10	"	3707 Bolduc & Genest, Ste. Sabine.	1 "	15	.....	Drouin & Frère...
"	12	"	3709 Jos. Turgeon, Ste. Isadore.	1 "	15	.....	Bernier, Scott Junction.
"	13	"	3716 " " "	1 "	15	.....	Drouin & Frère, Quebec.
Dec.	1	"	2867 Dorchester Lumber, Ste. Malachi.	1 "	15	.....	Dominion Molasses
"	1	"	2868 " " "	1 "	15	.....	" " "
"	1	"	2869 " " "	1 "	15	.....	" " "
"	2	"	2875 O. Audet, St. Léon de Standon.	1 "	15	.....	Dorchester Lumber.
"	3	"	2879 A. Cloutier, St. Odilon, Cranborn.	1 "	15	.....	.....
"	4	"	2881 L. J. Audet, St. Edward.	1 "	15	.....	Dorchester Lumber.
"	4	"	2882 " " "	1 "	15	.....	" " "
"	8	"	3719 M. Dechine, St. Grmaine Station.	1 "	15	.....	Gagnon & Garent, Quebec.
"	9	"	3723 O. Fortier, Ste. Rose, Dorchester.	1 "	15	.....	Dionne St. George, Beauce.
"	10	"	* 3729 D. Roy, Ste. Prospère...	1 "	25	.....	.....
"	21	"	3732 A. Mercier, St. Patrice de Beauvinage.	1 "	15	.....	.....
"	22	"	3735 O. Tralette, St. Narcisse-head Bois.	1 "	15	.....	N. Reno, Quebec..
"	22	"	3738 A. Demers, St. Narcisse-head, Bois.	1 "	15	.....	Gagnon & Garent, Quebec.

Both samples broken in transit.

SESSIONAL PAPER No. 14

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugars.	Sucrose.	Total Sugar.	Ash.	Organic mat- ter other than sugar.		

Continued.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	27.08	72.92	11.28	49.24	60.52	1.12	11.28	2571	
.....	27.28	72.72	24.84	38.64	63.48	2.04	7.20	2572	Sucrose low.
.....	27.43	72.57	23.72	37.68	61.40	1.82	9.35	2573	"
.....	26.03	73.97	24.48	39.24	63.72	1.10	9.15	2582	"
.....	26.86	73.14	23.52	37.88	61.40	1.60	10.14	2587	"
Extra Fancy Barbados	27.03	72.97	21.44	37.88	59.32	1.08	14.57	3701	"
.....	33.12	66.88	9.72	46.20	55.92	0.70	10.26	3705	
Favorite	26.73	73.27	20.88	40.44	61.32	1.50	10.45	3706	
Fancy Barbados	27.38	72.62	19.92	39.84	59.76	1.38	11.48	3707	
"	26.12	73.88	20.32	40.44	60.76	2.72	10.40	3709	
"	27.03	72.97	14.72	43.80	58.52	4.20	10.25	3716	
Gingerbread	19.38	80.62	28.48	18.60	47.08	7.32	26.22	2867	Ash too high. Sucrose very low.
Selected	25.28	74.72	21.24	37.08	58.32	3.44	12.96	2868	Sucrose low.
Fancy Barbados	26.23	73.77	19.76	40.61	60.40	2.90	10.47	2869	
.....	25.78	74.22	19.66	39.84	59.40	2.72	13.10	2875	
Scott Fancy Barbados	27.03	72.97	19.36	39.64	59.00	1.84	12.13	2879	
Selected	26.98	73.02	21.24	39.84	61.08	4.74	7.20	2881	
Evangeline Johnson	27.73	72.27	19.36	42.60	61.96	1.28	9.03	2882	
.....	27.08	72.92	29.24	34.92	64.16	1.22	7.54	3719	Sucrose low.
.....	29.73	74.27	22.00	37.08	59.08	3.40	11.73	3728	"
Fancy Barbados								* 3729	
.....	27.03	72.97	21.44	39.24	60.68	0.80	11.43	3732	
.....	26.58	73.42	21.44	41.40	62.84	1.48	8.60	3735	
.....	26.48	73.52	21.08	42.80	63.88	1.54	8.10	3738	

7 GEORGE V, A. 1917

BULLETIN No. 312—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1914.							
Dec. 23	Molasses,...	3741	Jos. Blais, Ste. Bernard, Dorchester.	1 qt.	15	.....	Drouin & Frere, Quebec.
Nov. 2	" ...	2400	Ernestide B. Paroisse, Ste. Jerome.	1 "	13	.....	.....
" 2	" ...	210	Honorias Gironx, Ste. Agathe des Monts.	1 "	13	.....	.....
" 18	" ...	226	J. N. Desjardins, Ste. Jerome.	1 "	19	.....	.....

DISTRICT OF THREE RIVERS—

Oct. 26	Molasses ...	2648	W. H. Lacasse, L'Assomption.	1 qt.	22	.....	Chevalier Pouliot, Joliette.
" 26	" ...	2649	Louis Pauze.....	1 "	15	.....	Chaput Son, Montreal.
" 28	" ...	2674	Archibald Duff, Charlemagne.	1 "	15	.....	Matthewson Sons, Montreal.
" 28	" ...	2675	Euclid Beauchamp, Charlemagne.	1 "	13	.....	Hudon Orsali, Montreal.
" 28	" ...	2687	Edm. Robillard, St. Paul L'Ernite.	1 "	28	.....	Jos. Ward, Montreal.

DISTRICT OF VALLEYFIELD AND EASTERN TOWNSHIPS—

7	Molasses ...	62601	D. Cusson, St. Johns, P.Q.	1 qt.	12	.....	E. Gervais, St. John.
" 7	" ...	62602	L. E. Choquette, Farnham	1 "	13	.....	Wm. Galbraith, Montreal.
" 12	" ...	62603	A. Nadeau, Bedford	1 "	13	.....	Hudon Hebert Co., Montreal.
12	" ...	62604	C. O. Jones, Bedford....	1 "	13	.....	Forbes Bros., Montreal.
" 22	" ...	62605	La Compagnie Dion, Lte, Valleyfield.	1 "	8	.....	Laporte Martin, Montreal.
" 9	" ...	62606	F. X. Leblanc, Ste. Hyacinthe.	1 "	10	.....	Jos. Ward, Montreal.
" 9	" ...	62607	L. A. Gendreau, St. Hyacinthe.	1 "	13	.....	E. Lafrance, Ste. Hyacinthe.
" 9	" ...	62608	N. Gosselin, St. Hyacinthe	1 "	13	.....	W. Valin, Ste. Hyacinthe.
" 9	" ...	62609	Lassond & Frere, St. Hyacinthe.	1 "	15	.....	L. Chaput Fils & Co., Montreal.
" 9	" ...	62610	J. C. Mousseau, Ste. Guillaume.	1 "	10	.....	Laporte Martin Co., Montreal.

SESSIONAL PAPER No. 14

MOLASSES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugars.	Sucrose.	Total Sugar.	Ash.		

Concluded.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
.....	26.28	73.72	23.56	43.20	66.76	1.86	5.10	3741
Fancy Barbados	26.48	73.52	14.72	51.68	66.40	3.00	4.12	2400
"	26.88	73.12	21.08	44.64	65.72	1.32	6.08	210
"	27.28	72.72	20.88	40.24	61.12	1.38	10.22	226

DR. V. P. LAVALLEE, INSPECTOR.

.....	27.00	73.00	21.08	41.80	62.88	1.82	8.30	2648
.....	27.46	72.54	21.80	39.24	61.04	0.98	10.32	2649
.....	26.96	73.04	21.80	39.24	61.04	1.88	10.12	2674
.....	26.16	73.84	21.12	41.80	62.92	1.44	9.48	2675
.....	27.00	73.00	22.56	43.60	66.16	1.22	5.62	2687

D. J. KEARNEY, ACTING INSPECTOR.

.....	27.06	72.94	21.80	46.40	68.20	1.24	3.50	62601
.....	27.31	72.69	22.36	39.04	61.40	0.94	10.35	62602
.....	26.61	73.39	18.44	43.80	62.24	1.58	9.57	62603
.....	27.16	72.84	23.32	39.44	62.76	1.16	8.92	62604
.....	27.81	72.19	20.12	43.80	63.92	2.32	5.95	62605
.....	26.81	74.19	22.96	38.84	61.80	1.54	10.85	62606 Sucrose low.
.....	26.46	73.54	27.32	36.04	63.36	1.06	9.12	62607
.....	26.21	73.79	25.04	45.04	70.08	1.40	2.31	62608
.....	27.96	72.04	20.48	41.60	62.08	1.08	8.88	62609
.....	26.46	73.54	23.88	38.64	62.52	1.62	9.50	62610 Sucrose low.

Date of Collection.	Nature of Sample.	No. of Sample.	Names and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Conts.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL--

1914.							
Dec.	3	Molasses. . .	62545 Barbeau Frere, 520* St. Catherine St., E. Montreal.	1 qt.	15	.....	Hudon Hebert & Cie., Montreal.
"	3	"	62646 Ed. Tessier, 982 St. Catherine St., Montreal.	1 "	15	.....	Unknown.
"	3	"	62547 J. Forest, 1395 St. Catherine St., Montreal.	1 "	13	.....	L. Chaput fils & Cie, Montreal.
"	4	"	62548 Chas. E. Lord & Frere, 311 Amherst St., Montreal.	1 "	16	.....	Hudon, Hebert & Cie, Montreal.
"	4	"	62549 M. L. Pelletier & Co., 605 Demontigny St., Montreal.	1 "	15	.....	Patenaude, Larue, Carignan, Ltd., Montreal.

DISTRICT OF OTTAWA--

Oct.	23	Molasses. . .	63521 Anastase Roy, Maniwaki.	3 bots.	30	.....	Provost & Allard, Ottawa.
"	24	"	63522 J. L. P. Sanders, Kemptville.	3 tins.	30	Ramsays, Ltd., Montreal.	Gilmour & Co., Brockville.
Nov.	6	"	63523 Hellard, Ltd., Rideau St., Ottawa.	3 bots.	15	.....	S. J. Major, Ltd., Ottawa.
"	6	"	63524 T. W. Collins, Ottawa.	3 "	15	.....	H. N. Bate & Sons, Ottawa.
"	6	"	63525 L. Caron, Ottawa.	3 "	15	.....	Provost & Allard, Ottawa.

DISTRICT OF KINGSTON--

Oct.	28	Molasses. . .	61570 R. W. Marshall, Kingston.	3 tins.	30	Ramsay's, Montreal.	.....
Nov.	2	"	61571 G. W. Boyes, Napanee. . .	3 "	30	" " . . .	.....
"	2	"	61572 W. H. Milling, Napanee. .	3 "	25	" " . . .	.....
"	3	"	61573 S. R. Artis, Belleville. . .	3 "	30	John Sloan, Toronto.	.....
"	3	"	61574 R. Elvins, Belleville. . . .	3 "	30	Ramsay's, Montreal.	.....

DISTRICT OF TORONTO--

Nov.	16	Molasses. . .	64621 J. D. Donsch, Collingwood.	3 bots.	10	.....	Perkins Ince Co.
"	17	"	64622 E. Armstrong, Barrie. . .	3 "	15	.....	Unknown.
"	18	"	64623 H. J. Charlebois, Penetang.	3 "	15	.....	" . . . .
"	19	"	64624 The Playfair Preston Co., Ltd., Midland.	3 "	18	.....	Parson & Brown, Toronto.
"	20	"	64625 Geo. Vick & Son, Orillia. .	3 "	12	.....	Unknown. . . .

SESSIONAL PAPER No. 14

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugars.	Sucrose.	Total Sugar.	Ash.	Organic mat- ter other than Sugar.		

D. J. KEARNEY, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	27.06	72.94	21.08	39.64	60.72	1.38	10.84	62545	
.....	26.06	73.94	27.52	27.36	54.88	3.32	13.74	62546	Sucrose very low.
.....	26.81	73.19	21.80	39.64	61.44	2.20	9.55	62547	
.....	27.36	72.64	19.20	41.60	60.80	1.74	10.10	62548	
.....	26.79	73.21	24.08	40.68	64.76	2.84	5.61	62549	

J. A. RICKEY, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Fancy Barbados.....	27.21	72.79	20.48	39.84	60.32	3.20	9.27	63521	
Kitchen Brand Louisiana molasses.	25.11	74.89	17.68	35.88	53.56	5.26	6.07	63522	Ash too high. Sucrose low.
Extra Fancy.....	25.51	74.49	28.28	36.88	65.16	1.54	7.79	63523	Sucrose low.
.....	27.01	72.97	19.56	43.80	63.36	2.23	7.40	63524	
.....	25.21	74.79	19.76	41.60	61.36	3.60	9.83	63525	

JAS. HOGAN, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	25.26	74.74	20.48	28.68	49.16	3.00	22.58	61570	Sucrose low.
.....	27.88	72.12	20.32	34.56	54.88	5.98	11.26	61571	Ash too high. Sucrose low.
.....	30.33	69.67	19.92	33.92	53.84	5.92	9.91	61572	
.....	27.88	72.12	20.88	32.12	53.00	7.03	12.09	61573	Sulphurous acid declared on label. Ash too high. Sucrose low.
.....	31.18	68.82	13.80	30.76	44.56	5.80	18.46	61574	Ash too high. Sucrose low.

H. J. DAGER, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	30.53	70.47	22.3	23.32	45.68	9.36	24.43	64621	Ash too high. Sucrose very low.
.....	24.16	75.84	23.72	23.52	47.24	7.14	21.46	64622	
.....	27.31	72.69	27.92	17.76	45.68	6.72	20.08	64623	
.....	23.31	76.69	21.64	29.08	51.32	1.10	21.27	64624	Sucrose low.
.....	22.96	77.04	23.72	26.96	50.68	6.72	19.64	64625	Ash too high. Sucrose low.

7 GEORGE V, A. 1917

BULLETIN No. 312—

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
					Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—								
1914.								
Nov.	3	Molasses....	64542	D. A. McLean, Owen Sound	1 qt..	10	.....	Unknown.....
"	5	"	64543	John Sandelos, Hanover,	" ..	10	.....	John Sloan & Co. Toronto.
"	6	"	64544	J. Pleskey, Walkerton....	3 bots	12	.....	John Sloan & Co., Berlin.
"	6	"	64545	Stephan Bros., " ..	" ..	10	.....	Geo. E. Bristol & Co., Hamilton.
"	10	"	64546	H. F. Powell & Co., Ltd., Dundas.	1 qt..	10	.....	" ..
DISTRICT OF WINDSOR—								
Nov.	3	Molasses....	63932	John Scott & Co., Woodstock.	1 qt..	14	.....	Grocers, Ltd., Toronto.
"	3	"	63937	Wm. Briggs & Son, "	3 tins.	30	.....	" ..
"	3	"	63938	W. Buckborough, "	" ..	30	.....	Elliott Marr Co. London.
"	4	"	63942	Mrs. E. Gibson, Tillsonburg.	1 qt ..	30	.....	Geo. Foster & Sons, Brantford.
"	4	"	63944	R. M. Teal, "	" ..	12	West India Molasses Co., Brantford.	.....
DISTRICT OF MANITOBA—								
Nov.	3	Molasses....	61211	Wm. Muir, Brandon.....	3 pkgs	45	Codville Co., Winnipeg.	.....
"	3	"	61212	J. Bower & Co., "	" ..	45	Jobin Marrin, Co., Winnipeg.	.....
"	12	"	61213	Gallaway Bros., Gladstone	3 pints	40	.....	.....
"	19	"	61214	T. R. Hardern, Portage & Stiles Ave., Winnipeg	3 cans	40	A. Macdonald, Co., Winnipeg.	.....
"	19	"	61215	Portage Provision Co., "	" ..	45	Codville Co., Ltd., Winnipeg.	.....
DISTRICT OF SASKATCHEWAN—								
Oct.	31	Molasses....	64074	Colonial Grocery Co., Regina.	1 qt..	25	Crosby Molasses Co., St. John, N. B.	Cameron & Heap, Regina.
"	31	"	64076	S. B. Gerxa, "	" ..	30	Boston Molasses Co., Boston.	Cobb, Bates & Torva, Boston.
Nov.	2	"	64079	Wheatland Mercantile Co. Mortlach.	" ..	40	.....	Codville Co., Ltd.
"	4	"	64089	Stewarts Bakery, Moose Jaw.	" ..	25	Crosby Molasses Co., St. John, N. B.	A. Macdonald Co., Moose Jaw.
"	5	"	64090	Lalonde & Harrington "	" ..	50	No-Vary Products Co., Minneapolis	Moose Grocery Co. Moose Jaw.

SESSIONAL PAPER No. 14

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar.	Ash.	Organic mat- ter other than sug. c.		

H. J. DAGER, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	26.23	73.77	20.32	30.90	51.22	9.30	13.25	64542	Ash too high. Sucrose low.
.....	24.88	75.12	24.84	23.88	48.72	4.86	21.54	64543	Sucrose very low.
.....	26.28	73.72	18.24	30.44	57.68	6.24	19.80	64544	Ash too high.
.....	25.43	74.57	26.56	22.36	48.92	6.80	18.85	64545	" " Sucrose very low.
.....	27.43	72.57	24.64	20.08	44.72	6.06	21.79	64546	" "

JOHN TALBOT, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	24.81	75.19	21.64	29.84	51.48	5.26	18.47	63932	Ash too high. Sucrose low.
"Sunset" Brand, choicest New Orleans Molasses.	23.36	76.64	25.40	23.32	48.72	5.80	22.12	63937	" "
"Ginger Bread" Brand, choice West India Molasses.	25.81	74.19	36.76	14.64	51.40	3.88	18.91	63938	Sucrose very low.
Special West India Molasses.	23.36	76.64	20.48	25.44	45.92	6.10	24.62	63942	Ash too high. Sucrose low.
West India Molasses	25.56	74.44	19.92	25.24	45.16	7.80	21.48	63944	" "

A. C. LARIVIERE, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
"Reliance" Brand	24.96	75.04	21.44	24.48	45.92	1.78	20.12	61211	Sulphurous acid declared on label. Sucrose low.
"Challenge" "	19.86	80.14	24.64	26.96	51.60	7.60	20.94	61212	Sulphurous acid declared on label. Ash too high. Sucrose low.
Imported from New Orleans.	25.61	74.39	16.56	31.20	47.76	5.78	20.85	61213	Ash too high. Sucrose low.
.....	20.66	79.34	20.04	23.12	52.16	7.20	19.98	61214	Sulphurous acid declared on label. Ash too high. Sucrose low.
.....	21.71	78.29	24.84	27.72	52.56	7.06	18.53	61215	Ash too high. Sucrose low.

L. H. HALL, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
"Aunt Dinah" Brand	26.06	73.94	15.64	32.96	48.60	5.60	19.14	64374	Ash too high. Sucrose low.
Porto Rico	26.11	73.89	17.12	38.04	55.16	4.28	14.43	64076	Sucrose low.
"Gold Standard" Brand	24.60	75.40	21.24	30.24	51.48	6.20	17.60	64079	Ash too high. Sucrose low.
"Family" "	22.96	77.04	18.04	32.76	51.00	5.32	20.92	64080	" "
"No-Vary" Brand, contains Sulphur Dioxide.	20.61	79.39	20.24	25.44	54.68	3.24	21.47	64086	Sucrose low.

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BULLETIN No. 312—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ALBERTA—							
1914.							
Nov. 18	Molasses....	52034	Pryce Jones (Canada) Ltd., Calgary.	3 tins	45	Dominion Molasses Co. Ltd., Halifax	.....
" 19	" ..	52035	Geo. J. Wood, Calgary...	1 qt..	30	.....	Campbell, Wilson & Horne, Calgary
" 23	" ..	52036	Sharpe & Page, Stettler..	3 tins	75	Dominion Molasses Co. Ltd., Halifax	.....
" 26	" ...	52037	Montgomery Bros., We-taskiwin.	3 "	75	" "	.....
" 27	" ...	52038	A. M. Campbell, Lacombe	3 "	75	" "	.....
DISTRICT OF ROCKY MOUNTAINS—							
Nov. 10	Molasses....	61704	Trail Grocery Co., Trail, B.C.	3 tins	75	Kelly Confection Co., Vancouver.	.....
" 10	" ...	61705	" " "	3 "	60	Ramsay Bro. & Co., Vancouver.	.....
" 10	" ...	61713	T. Lauriente & Son, Trail, B.C.	3 "	60	Dominion Molasses Co. Ltd., Halifax	.....
" 20	" ...	61721	Armstrong's Dept. Store, Merritt, B.C.	3 "	60	Kelly Confection Co., Vancouver.	.....
" 23	" ...	61728	Hudsons Bay Co., Kamloops, B.C.	3 "	45	Pacific Coast Syrup Co., Seattle.	.....
DISTRICT OF VANCOUVER—							
Oct. 27	Molasses....	55096	C. H. Silcox, Lakeview station, Vancouver.	3 tins	45	Penick & Ford, New Orleans, Lo.	.....
" 30	" ...	55097	Dukes Grocery, 293 Hastings st. E., Vancouver.	3 "	45	Ramsay Bros. & Co. Ltd., Vancouver.	.....
" 30	" ...	55098	Efford Bros., 246 Broadway st. E., Vancouver.	3 "	40	Kelly Confection Co. Ltd., Vancouver.	.....
" 30	" ...	55099	Cochrane & Elliott, 657 5th Ave. E., Vancouver.	3 "	45	Crosby Molasses Co. Ltd., St. John, N.B.	.....
" 31	" ...	55100	Gardiner & Davy, Richard & Smyth sts., Vancouver	3 "	25	Oelrich & Berry Co., New Orleans, Lo.	.....
DISTRICT OF VICTORIA—							
Nov. 5	Molasses....	62005	The Windsor Grocery Co. Ltd., 817 Govt. street, Victoria.	3 tins	60	Dominion Molasses Co. Ltd., Halifax	.....
" 6	" ...	62007	The West End Grocery Co. Ltd., 1002 Govt. st., Victoria.	3 "	60	Imperial Syrup Co. Ltd., Vancouver	.....
" 9	" ...	62014	Copas & Young, Broad & Fort sts., Victoria.	3 "	40	Kelly Confection Co. Ltd., Vancouver.	.....
" 10	" ...	62020	Dixie H. Ross & Co., 1317 Govt. st., Victoria.	3 "	75	Imperial Syrup Co. Ltd., Vancouver.	.....
" 11	" ...	62027	H. O. Kirkham Co. Ltd., 741 Fort st., Victoria.	2 lbs.	25	Crosby Molasses Co. Ltd., St. John, N.B.	.....

SESSIONAL PAPER No. 14

MOLASSES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar.	Ash.	Organic matter other than sugar.		

A. W. MARKLEY, INSPECTOR.

"Ginger Bread" Brand choice West Indies molasses.	25.91	74.09	26.92	20.08	47.00	6.80	20.29	52034	Ash too high. Sucrose very low.
.....	27.76	72.24	17.68	38.84	56.52	3.80	11.92	52035	Sucrose low.
"Ginger Bread" Brand....	25.16	74.84	26.92	21.80	48.72	6.20	19.92	52036	Ash too high. Sucrose very low.
"Dirmolco," highest grade	24.16	75.84	23.88	36.68	60.56	2.46	12.82	52037	Sucrose low.
"Ginger Bread" Brand....	21.81	78.19	24.48	26.20	50.68	9.74	17.77	52038	Ash too high. Sucrose low.

THOS. PARKER, INSPECTOR.

"Chief".....	26.81	73.19	25.60	30.24	55.84	6.60	26.75	61704	Ash too high. Sucrose low.
"New Orleans".....	21.33	78.67	23.12	32.20	55.32	6.40	16.95	61705	"
"Domolco".....	22.03	77.97	11.40	54.32	65.72	4.46	7.79	61713	
.....	21.33	78.67	23.52	33.36	56.88	1.56	20.23	61721	Sucrose low.
"Avondale".....	25.03	74.97	20.48	31.60	52.08	6.18	16.71	61728	Ash too high. Sucrose low.

E. J. MORGAN, INSPECTOR.

"Annt Dinah" Brand, pure New Orleans molasses. Contains sulphur dioxide	23.31	76.69	23.76	34.52	58.28	7.34	11.07	55096	Sulphurous acid de- clared on label. Ash too high, sucrose low.
.....	22.16	77.84	22.06	31.80	53.80	9.32	14.72	55097	Ash too high. Sucrose low.
Pure Barbados	26.66	73.34	16.40	41.40	57.80	3.28	12.26	55098	
"Family" Brand, choice New Orleans molasses.	23.86	76.04	13.60	31.60	45.20	8.30	22.54	55099	Ash too high. Sucrose low.
"Red Hen" Brand, Louisi- ana molasses. Contains sulphur dioxide.	23.86	76.04	26.36	28.88	55.24	7.32	13.48	55100	Sulphurous acid de- clared on label. Ash too high, sucrose low.

D. O'SULLIVAN, INSPECTOR.

"Domolco" Brand	19.03	80.97	25.60	34.72	60.32	1.96	18.68	62806	Sucrose low.
"Kitchen" Brand	20.48	79.52	25.04	32.20	57.24	8.64	13.64	62807	Ash too high. Sucrose low.
"Black Strap" Brand.....	23.28	76.72	26.00	28.32	54.32	4.88	17.52	62814	Sucrose low.
"Kitchen" Brand	20.13	73.87	22.76	29.84	52.60	6.40	14.87	62820	Ash too high. Sucrose low.
"Household" Brand	22.28	77.72	25.40	35.68	61.08	6.46	10.18	62827	"

APPENDIX D.

BULLETIN No. 313—VINEGAR.

OTTAWA, May 5, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report concerning two hundred and forty-five (245) samples purchased as Vinegar, in October, November and December of last year.

Our last extended inspection of vinegar was made in 1911, and is reported in Bulletin No. 235.

Vinegar is defined, under the Adulteration Act as "A more or less coloured liquid, consisting essentially of impure dilute acetic acid, obtained by the oxidation of wine, beer, cider, or other alcoholic liquid." It will be understood that the word *impure*, used in this connection, has regard to the presence of matters *other than* acetic acid not objectionable or undesirable, but, in fact, quite the contrary.

Under section 26 of the Act, standards and certain limiting values for different kinds of vinegar were established by Order in Council of December 19, 1913.

No better illustration of the changes which common usage brings about in the signification of words could be quoted than that afforded by the word vinegar. Etymologically it means soured wine; and it was at first employed with definite reference to that article. The souring of wine is due to the conversion of alcohol into acetic acid; and it was soon found that dilute solutions of alcohol, such as malt mashes, fermented fruit juices, hard cider, fermented raspberry juice, etc., could turn sour, and the resultant product was recognized as vinegar, but distinguished as malt vinegar, raspberry vinegar, cider vinegar, etc. Then, it was discovered that distilled spirit could be diluted to proper strength and made to undergo the acetic acid fermentation, whereby so-called, spirit vinegar was produced. Finally, since the presence of acetic acid was found to be the chief character, it came about that diluted acetic acid from whatever source produced, was made to do duty as vinegar; either *per se*, or by addition to a fermentation product too low in acid strength. The public is therefore offered the following articles under the name vinegar:—

1. Soured (aceticified) white wine.
2. " " red wine.
3. " " fermented malt mash.
4. " " " cider.
5. " " " other fruit juices.
6. " " dilute spirits.
7. Diluted acetic acid.

The first six articles named are distinguished from the last (7th) by the fact that the acetic acid which they contain has been produced by fermentation (*acetylation*) in the liquid itself; they are properly described as a class, by the term "fermented." The sixth on the list is sometimes called distilled vinegar since it is made from a distilled spirit. This does not mean that the vinegar itself has been distilled. The last named article is not legally recognized as a vinegar. It may be sold as artificial

vinegar, imitation vinegar; vinegar substitute, or acetar. While it possesses the sourness of true vinegar, it does not possess the special flavour which characterizes the various kinds of true vinegar. The flavour referred to is due to the fact that when fermentation to produce acetic acid occurs in a dilute alcoholic liquid, small amounts of other substances are produced at the same time. These so-called congeners impart flavour to the vinegar, and this flavour is different for each particular source. For this reason, vinegars from certain sources are much in favour with the public; those made from white wine, from malt mash, from cider, and from spirits of wine are most in demand. A solution of pure acetic acid in water has no particular flavour, and is not entitled to be called a vinegar; although a very good substitute for vinegar may be manufactured from acetic acid, by adding suitable flavouring materials. Of course, the acetic acid employed in making such a surrogate vinegar, must be quite pure.

It will readily be conceded that vinegar should be both bought and sold under a name which correctly describes it. A customer who demands vinegar, has no ground of complaint against the dealer who supplies him with any one of the first six varieties listed above. But if he asks for malt vinegar he is defrauded if given a vinegar which is not actually made from malt; and so of the other kinds. The vinegar which dominates the market in any particular country, usually corresponds to the producing material most abundant and therefore most readily available in that country. Thus, wine vinegar is most popular in France, malt vinegar in England, cider vinegar in the United States of America, and spirit vinegar in Canada. But, in Canada, we find a great demand for malt and cider vinegars, and a very wide spread demand for white wine vinegar.

The wide demand for this last named vinegar in Canada led to very extensive use of the name white wine vinegar, for an article which was not made from grapes at all, but was really a spirit vinegar. If it were generally understood that white wine vinegar as sold in Canada was a spirit vinegar, the misapplication of the name would in reality be no worse than that involved in applying the term Vinegar (*vin* = wine; *aigre* = sour) to a product which is not produced from wine, as in the case of malt and cider Vinegars. But, in the first place, spirit Vinegar, is a very desirable form of vinegar, and is entitled to its own name; again Wine Vinegar is already produced to some extent in Canada, and is imported from wine-producing countries, and both maker and importer have a right to object to competition with a surrogate wine vinegar. For these reasons it must be held that a spirit vinegar, offered as a white wine vinegar, is a case of fraud, and constitutes legal adulteration under Section 3 (d) of the Act which says:—

“Food shall be deemed to be adulterated within the meaning of this Act;

(d) if it is an imitation of, or is sold under the name of another article.”

For the information of those interested, the Order in Council which defines standards for Vinegar, is reproduced.

42
FOOD.

G 1096
10,000

DEPARTMENT OF INLAND REVENUE.

OTTAWA, December 29, 1913.

MEMO.—

Under authority of an Order of His Royal Highness the Governor General in Council, bearing date the 19th day of December, 1913, and in virtue of the Provisions of the 26th Section of the ADULTERATION ACT, the following Standards of quality have been established for “Vinegar.”—

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VINEGAR STANDARDS.

1.—Vinegar is a more or less coloured liquid, consisting essentially of impure, dilute acetic acid, obtained by the oxidation of wine, beer, cider, or other alcoholic liquid.

2.—The term Acetic Acid in the above and in the following clauses is to be understood to mean Acetic anhydride, $C_2H_4O_3$ molecular weight=102; equivalent=51.

One cubic centimeter of normal soda neutralizes 0.051 gramme of Acetic Acid. Hence, the number of cubic centimeters of normal soda required to neutralize 100 grammes of Vinegar, when multiplied by 0.051 gives the percentage weight of Acetic Acid contained in the Vinegar.

When the Vinegar is measured instead of being weighed the number of cubic centimeters of normal soda required to neutralize 100cc of the Vinegar, multiplied by 0.051 gives the percentage weight of acetic acid in 100 volumes of the Vinegar and is stated as percentage of weight in volume.

3.—Vinegar shall contain not less than three and one-half (3.5) per cent; and not more than ten and one-half (10.5) per cent of Acetic Acid.

4.—Wine Vinegar is vinegar made by the alcoholic and subsequent acetous fermentation of the juice of grapes.

5.—Spirit Vinegar; Alcohol Vinegar; Grain Vinegar is vinegar made by the acetous fermentation of diluted distilled alcohol.

6.—Malt Vinegar is vinegar made by the alcoholic and subsequent acetous fermentation, without distillation, of an infusion of Malt, with or without the addition of other cereals. It is dextrorotatory, and contains in 100cc not less than 1.8 grammes of solids, and not less than 0.2 gramme ash.

7.—Cider Vinegar, Apple Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of the juice of apples. It is laevo-rotatory and contains in 100cc not less than 1.6 grammes of apple solids, of which not more than fifty (50) p.e. is reducing sugars; and not less than 0.25 gramme of apple ash. The water soluble ash from 100cc contains not less than ten milligrammes of phosphoric acid (P_2O_5) and requires not less than 30cc of deci-normal acid to neutralize its alkalinity. 100cc of the vinegar contains not less than 0.15 gramme of glycerine.

8.—Vinegar may be made by the acetous fermentation of dilute alcoholic liquids whose alcohol may have had its origin in the fermentation of fruit sugars of various kinds, or of ordinary sugar. Such vinegar should bear distinctive names, indicating the source of the saccharine matter.

9.—Blended Vinegar is made by mixing two or more of the above varieties of vinegar.

10.—Artificial Vinegar; Imitation Vinegar; Vinegar Substitute; Acetar, etc., are solutions of pure Acetic Acid within the limits of strength of vinegar, which acid is not wholly the product of alcoholic and subsequent acetous fermentation.

11.—Concentrated Vinegar, Vinegar Essence, is a liquid containing more than ten and one-half (10.5) p.e. of acetic acid, whose acetic acid is entirely the product of the acetous fermentation of alcohol.

12.—Concentrated Artificial Vinegar, or Concentrated Imitation Vinegar or Imitation Vinegar Essence is a liquid containing more than ten and one-half (10.5) p.e. Acetic Acid, such acetic acid being in whole or in part derived from other sources than the acetous fermentation of alcohol.

13.—Concentrated Vinegar, Vinegar Essence and Concentrated Artificial Vinegar, etc., as defined in Sections 11 and 12, shall not be offered for sale when the acetic acid content is above twenty-five (25) per cent, unless labelled in such a way as to

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show plainly that the article is poisonous unless diluted with at least an equal amount of water.

The Standards above defined take effect on the 28th day of January, 1914.

Under the Provisions of Section 255 of Chapter 51, Revised Statutes of Canada, 1906, "An Act Respecting The Inland Revenue," manufacturers of vinegar made exclusively from Malt, may continue to receive remission of duty on the Malt used in the manufacture of Vinegar, provided no other Cereal is used.

If any other Cereal is employed the refund cannot be made.

This provision will remain in existence until the Section of The Inland Revenue Act, above referred to, has been amended.

WM. HIMSWORTH,

Deputy Minister.

The present report deals with two hundred and forty-five (245) samples of vinegar, purchased under the following names:—

	Samples.
Malt Vinegars.	70
Cider Vinegars.	28
White Wine Vinegars.	47
Various Vinegars.	100
Total.	245

Their analysis shows that 47 out of 70 malt vinegars are true to name; 22 out of 28 Cider Vinegars are also true to name.

Forty-one (41) samples out of forty-seven (47) sold as White Wine Vinegars, are not Wine Vinegars at all. They are chiefly Spirit Vinegars, and should have been sold as such. As already noted, the so long established custom of selling Spirit Vinegar under the name of *White Wine Vinegar*, has proved too strong to be corrected in the interval of time (somewhat less than a year) between the publication of Departmental Standards, and the inspection now reported.

It has not been the usual policy of this Department to penalize vendors of foods (where no injury to public health was involved) until the lapse of at least one year after the adoption of standards. For this reason I would respectfully advise publication of this report rather as a criticism and a warning to manufacturers and dealers. Inspection of Vinegars will be made continuously from this date; and dealers and manufacturers cannot plead insufficient notification if, on future occasions they are dealt with strictly in accordance with the terms of the Act.

This recommendation to leniency has reference only to those samples of Spirit Vinegar which have been supplied under the incorrect name of Wine Vinegar; and is made in recognition of the long established, but misleading, custom of the trade; a custom which is made illegal under the Order in Council above quoted.

Where surrogates for Malt Vinegar or Cider Vinegar are offered, no such excuse can be urged. Both Malt and Cider Vinegars have long been manufactured and sold under their proper names; and no valid excuse can be made for selling as a Malt Vinegar an article which is not made from malt, or as a Cider Vinegar, an article which is not made from cider. Twenty-three (23) samples sold as Malt Vinegar, are found to be adulterated under the Act, in the sense that they are not made from malt.

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Five (5) samples sold as Cider Vinegar are found not to comply with the standards for this article, and are therefore declared adulterated.

I beg to recommend publication of this report as Bulletin No. 313.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1914.								
Dec. 30	Vinegar ..	54220	John Tobin & Co., Halifax, N.S.	3 pts..	25	Purnells Co., Bristol, Eng.	Mfrs.	Malt.
1915.								
Jan. 11	" ..	54221	Bauld Bros., Ltd., Halifax, N.S.	3 qts..	46	Holbrook Co., London, Eng.	"	"
" 11	" ..	54223	Dillon Bros., Halifax.	3 pts..	23	Wilson, Lytle & Badgerow & Co. Toronto, Ont.	"	"
" 11	" ..	54224	Cahill & Co., Halifax	3 " .	20	McCready & Sons, St. John, N.B.	"	"

DISTRICT OF NOVA SCOTIA—

1914.								
Dec. 5	Vinegar ..	65807	The 2 Barkers, Ltd., New Glasgow, N.S.	3 pts..	25	Holbrook & Co., London, Eng.	Mfrs.	Labelled Pure Malt

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 24	Vinegar ..	60126	Beer & Goff, Char- lottetown, P.E.I.	3 pts..	30	Holbrook, Lon- don, Eng.	"	Malt.
" 24	" ..	60129	Stewart & Sons, Char- lottetown, P.E.I.	3 bots.	60	Crosse & Black- well, London, Eng.	"	"
" 24	" ..	60130	" " "	3 " .	60	Purnells, Bristol, Eng.	"	"

DISTRICT OF NEW BRUNSWICK—

Nov. 10	Vinegar ..	59601	Walter Gilbert, St. John, N.B.	3 bots.	75	Crosse & Black- well, London, Eng.	"	Malt.
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DISTRICT OF QUEBEC CITY—

Nov. 2	Vinegar ..	56309	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 pts..	60	Holbrook & Co., London.	J. B. Renaud & Cie.	Malt.
" 2	" ..	60701	" " "	3 " .	70	Heinz, Pitts- burg, Pa.	"	"
" 4	" ..	60705	A. Grenier, 94 Rue St. Jean, Quebec.	3 " .	50	Lazenby & Son.	Mfrs.	"

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VINEGAR (MALT.)

Results of Analysis.													Remarks and Opinion of the Chief Analyst.
Grams. per 100cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgms. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate pptle.	Polarization.	No. of Sample.		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.							
R. J. WAUGH, INSPECTOR.													
4.31	3.961	0.823	.....	.....	.....	.....	.....	.....	copious	+ 2.6	54220	Meets standard.
4.67	2.815	0.322	.....	.....	.....	.....	.....	.....	"	+ 3.5	54221	"
3.95	2.195	0.263	.....	.....	.....	.....	.....	.....	"	+ 1.5	54223	"
4.23	0.740	0.068	.....	10.7	2.52	.....	.....	.....	medium	- 0.9	54224	Not malt vinegar Adulterated.
W. A. PETIPAS, TEMP. INSPECTOR.													
4.27	3.89	0.595	.....	.....	.....	.....	trace	trace	copious	.....	65807	Meets standard.
WM. A. WEEKS, INSPECTOR.													
4.68	3.08	0.315	.....	10.8	32.0	.....	trace	copious	copious	.....	60126	Meets standard
4.52	3.37	0.276	.....	14.4	46.8	.....	.....	trace	heavy	.....	60129	"
4.17	2.59	0.285	.....	6.0	trace	.....	copious	medium	copious	.....	60130	"
JNO. C. FERGUSON, INSPECTOR.													
5.00	1.93	0.28	.....	4.8	trace	.....	medium	heavy	copious	.....	66801	Meets standard
F. X. W. E. BELAND, INSPECTOR.													
4.37	2.87	0.232	0.150	6.18	trace	55.6	trace	medium	copious	56380	Meets standard.	
4.17	2.15	0.225	0.09	9.27	25.6	54.6	60730	"	
4.67	2.93	0.28	0.12	8.24	14.7	66.2	heavy	60735	"	

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BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC PROVINCE—

1914.								
Nov. 2	Vinegar ..	211	H. Giroux, St. Agathe des Monts.	3 pts..	75	.....	.....	Malt
" 11	" ..	220	Pierre Simard, St. Jerome.	3 bots.	75	Fardons Vinegar Co., Ltd.	.....	" .....
" 18	" ..	224	Eug. Lacas, St. Jerome.	3 " "	45	Purnell & Panter, Ltd.	.....	" .....
Dec. 26	" ..	241	Waddell & Freres, St. Therese de Blainville.	3 " "	75	Crosse & Blackwell.	.....	" .....
Nov. 23	" ..	2729	Jos. Fournier, St. Thomas Montmagny.	3 pts..	25	.....	.....	" .....
" 2	" ..	212	D. Hetu, St. Agathe des Monts.	3 " "	75	Crosse & Blackwell.	.....	" .....

DISTRICT OF EASTERN TOWNSHIPS—

Nov. 24	Vinegar ..	63036	N. Lacroix, Sherbrooke.	3 qts.	38	Wilson, L. B. Co., Ltd., Toronto.	.....	Malt.
" 24	" ..	63038	D. W. Stenson, Sherbrooke.	3 " "	38	.....	.....	" .....

DISTRICT OF MONTREAL—

Nov. 24	Vinegar ..	62526	I. Reindeau, 509 La-salle Road, Verdun.	3 pts.	30	.....	Hudon Herbert, Montreal.	Malt
" 24	" ..	62529	R. J. Milne, 1453 Wellington st., Verdun.	3 bots.	30	Holbrook, Ltd.,	.....	" .....
" 25	" ..	62531	Mrs. Williams, 1393 Wellington st., Verdun.	3 " "	60	S. Chivers & Co., Ltd.	.....	" .....

DISTRICT OF VALLEYFIELD—

Dec. 9	Vinegar ..	62812	E. C. McCoy, Huntingdon.	3 pts.	30	.....	.....	Malt (Imported.)
" 10	" ..	62815	Geo. Leblanc, Longueuil.	3 " "	25	.....	.....	Malt
" 15	" ..	62819	The Industrial Co-operative Society, Valleyfield.	3 " "	21	.....	.....	" .....

SESSIONAL PAPER No. 14

VINEGAR (MALT.)

Results of Analysis.											Remarks and Opinion of the Chief Analyst.	
Grams, per 100 cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgm. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate pptc.	Polarization.		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						
											No. of Sample.	

N. C. CADIEUX AND T. GENDREAU, TEMP. INSPECTORS.

4.20	1.80	0.20	.....	10.0	30.4	.....	medium	heavy	heavy	...	211 Meets standard.
4.10	2.44	0.25	0.06	3.09	22.7	81.2	"	medium	copious		22
4.15	3.60	0.64	0.42	7.72	35.3	62.8	copious.	"	large		224
4.62	1.84	0.265	0.115	9.27	16.0	63.3	trace.	trace.	copious.		241
4.65	0.15	0.04	0.01	3.09	none	none	"	"	"		27.20 Not malt vinegar. Adulterated.
4.90	2.13	0.28	.....	14.8	32.8	.....	medium	heavy	copious		212 Meets standard.

J. J. COSTIGAN, ACTING INSPECTOR.

3.45	2.07	0.16	0.075	7.21	trace	24.7	trace	trace	slight.		63036 Meets standard.
3.85	2.0	0.18	0.120	10.3	15.0	45.9	"	"	heavy		63038

D. J. KEARNEY, INSPECTOR.

4.10	1.62	0.20		5.20	25.2		medium	heavy	heavy		62526 Meets standard.
5.10	2.47	0.28		4.00	8.00		heavy	trace			62529
4.00	2.15	0.32		10.4	34.8		trace	none	copious.		62531

J. J. COSTIGAN, ACTING INSPECTOR.

5.54	2.48	0.23	0.08	7.21	11.0	64.4	medium	medium	copious		62812 Meets standard.
5.29	0.22	0.04	0.015	2.06	7.0	37.7	trace		medium		62815 Not malt vinegar. Adulterated.
3.83	2.55	0.13	0.025	2.57	8.0	37.2	"	"	copious		62819 Meets standard.

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1914.								
Oct. 31	Vinegar..	63516	McLean Bros., Smith's Falls.	3 bots.	15	Wilson, Lytle, Badgerow, Ltd., Toronto.	.....	Wilson's Pure Malt
Nov. 6	" ..	63518	McDonald Bros., Ottawa.	3 "	15	.....	H. N. Bate & Sons, Ottawa	Malt.

DISTRICT OF KINGSTON—

Oct. 28	Vinegar..	61555	D. B. Muarry, King- ston.	1 qt.	20	Wilson, Lytle, Badgerow, Ltd, Toronto.	Malt.....
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DISTRICT OF TORONTO—

Nov. 23	Vinegar..	64561	The Turner Co., Ltd., 106 Frank st., east, Toronto.	3 bots.	35	Vendors.....	<i>Finest Eng- lish Distil- led Malt.</i>
" 24	" ..	64562	Wilson, Lytle & Bad- gerow Co., Ltd., 112 Duke st., Tor- onto.	3 "	15	" .....	.....	"
" 24	" ..	64563	Parsons Brown & Co., 78 Colborne st., Toronto.	3 "	25	" .....	.....	<i>Coronation Pure Eng- lish Malt.</i>
" 25	" ..	64565	Fred. Coward, 402 Spadina ave., Tor- onto.	3 "	30	Holbrooks, Ltd., Toronto.	.....	<i>Pure Eng- lish Malt.</i>
" 25	" ..	64566	The T. A. Lytle Co., Ltd., Sterling Road, Toronto.	3 "	23	Wilson, Lytle, Badgerow, Ltd., Toronto.	.....	"
" 25	" ..	64567	A. W. Milne, 1063 College st., Toronto	3 "	30	.....	The Ontario Importing Co., Toronto	" <i>Crown Brand.</i>
" 27	" ..	64598	W. W. Hall, 228 Westmoreland ave., Toronto.	3 "	30	Stephens & Har- dy, Toronto.	.....	WhiteYacht Brand Orig- inalMalt, Standard- ized.

SESSIONAL PAPER No. 14

VINEGAR (MALT).

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Grams. per 100cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ MgBis. per 100cc.		Chlorides.	Sulphates.	Lead Acetate ppt.	Polarization.		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

J. A. RICKEY, INSPECTOR.

4.03	2.21	0.17	...	3.2	trace	.....	heavy	heavy	heavy	.....	63516	Meets standard.
3.40	2.30	0.360	...	4.4	...	.....	copious	...	very copious.	.....	63518	"

JAS. HOGAN, INSPECTOR.

3.93	2.02	0.19	...	5.6	trace	none	none	heavy	61555	Meets standard.
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H. J. DAGER, INSPECTOR

3.82	0.32	0.20	0.140	16.5	trace	14.0	none	trace	heavy	64561	Meets standard.
3.90	2.24	0.14	0.03	1.54	none	67.2	trace	medium	medium	.....	64562	"
3.98	2.60	0.305	0.15	1.54	8.0	70.1	medium	copious	copious	.....	64563	"
4.15	2.51	0.295	0.160	1.54	none	65.3	trace	heavy	...	.....	64565	"
3.70	2.80	0.15	0.035	2.06	...	54.6	none	trace	medium	.....	64566	"
3.68	3.24	0.14	0.03	1.0	...	60.1	trace	medium	...	.....	64567	"
2.78	0.25	0.02	0.005	2.06	...	none	none	trace	none	.....	64568	Not made sample. Adulterated.

7 GEORGE V. A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON—

1914.								
Nov.	3	Vinegar . .	64510 McLauchlan Sons Co., Owen Sound.	3 bots.	25	Macnochie Bros., London, Eng.	.....	Brown Malt
"	6	" . .	64513 Goode & McKay, Walkerton.	3 pts.	20	Holbrooks, Ltd., Toronto.	.....	Malt....
"	9	" . .	64514 H. W. Eaton, 447 Barton St. E., Hamilton.	3 bots.	45	The Turner Co., Ltd., Toronto.	.....	Finest English Malt Vinegar Distilled. 3 Star Quality.

DISTRICT OF MANITOBA—

Nov.	3	Vinegar . .	61202 J. Bower & Co., Brandon.	3 pts.	20	The Dyson Co., Winnipeg.	.....	Malt....
"	12	" . .	61205 Galloway Bros., Gladstone.	3 bots.	75	Crosse & Blackwell, London, Eng.	.....	" .....
"	12	" . .	61206 R. E. Broadfoot, Gladstone.	3 pts.	15	" .....	.....	" .....
"	16	" . .	61207 Simkins Grocery Store, St. James, Man.	3 "	30	" .....	.....	Red Cross Malt.

DISTRICT OF SASKATCHEWAN—

Oct.	27	Vinegar . .	64049 Capital Grocery, Regina.	3 bots.	15	.....	.....	Malt....
"	28	" . .	64058 Manville & Co., Prince Albert.	3 "	10	.....	James Turner & Co., Hamilton.	"
"	30	" . .	64071 F. R. Bailey & Co., Saskatoon.	3 "	15	.....	.....	" .....
"	30	" . .	64073 Jones Bros., Saskatoon.	3 pts.	45	The Dyson Co., Winnipeg.	Mfrs.	"
Nov.	5	" . .	64092 McLean Grocery, Moose Jaw.	3 "	45	Crosse & Blackwell, London, Eng.	Crawford & Co., Moose Jaw.	"

SESSIONAL PAPER No. 14

VINEGAR (MALT).

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Grams per 100 cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgrms. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate ppt.	Polarization		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

H. J. DAGER, ACTING INSPECTOR.

5.02	2.31	0.12	0.03	2.06	34.3	44.9	medium	medium	copious		64510	Meets standard.
3.98	2.52	0.270	...	5.2	trace		none				64513	
3.10	0.91	0.07	0.035	1.03	none	trace	"	trace	trace		64514	Not malt vinegar. Adulterated.

A. C. LARIVIERE, INSPECTOR.

5.64	2.41	0.196					medium	trace			61202	Meets standard.
5.20	2.00	0.27		12.8	36.4		light	medium	heavy		61203	
8.26	1.40	0.06					none				61204	Not malt vinegar. Adulterated.
5.14	4.13	0.285									61207	Meets standard.

L. H. HALL, INSPECTOR.

4.37	0.42	0.06	0.025	2.06	none	none	none	medium	trace		64949	Not malt vinegar. Adulterated.
3.93	0.35	0.02	0.00	1.54	-	-	light trace	light trace	none		64968	
5.01	0.71	0.04	0.018	3.60	-	-	none	trace	-		64971	
4.92	3.09	0.260	0.08	2.06	-	68.1	heavy	-	equant.		64977	Meets standard.
4.57	2.00	0.273	0.105	11.3	30.5	48.8	medium	medium	-		64997	

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ALBERTA—

1914.								
Nov. 18	Vinegar ..	52019	Pryce Jones (Canada) Ltd., Calgary.	3 bots.	90	Crosse & Blackwell, London, Eng.	.....	Pure Malt Vinegar. Free from Mineral Acids.
" 25	" ..	52024	Duncan Sampson, Camrose.	3 "	25	Pioneer Vinegar Co., Edmonton	.....	Malt.....
" 25	" ..	52025	Montgomery, Bros., Wetaskiwin.	3 "	90	Holbrook & Co., London, Eng.	Campbell, Wilson & Horne, Edmonton.	Pure Malt..

DISTRICT OF ROCKY MOUNTAINS—

Nov. 10	Vinegar ..	61711	Co-operativa Italiana Association, Trail.	3 bots.	75	.....	Kelly, Douglas Co., Vancouver.	Mackenzie's Malt.
" 20	" ..	61716	Merritt Dist. Indust. Co-operative Soc., Merritt.	3 "	75	.....	W. J. Fendray & Sons, Victoria.	Malt.
" 20	" ..	61719	Armstrong's Deptl. Store, Merritt.	3 "	75	White, Cottell & Co., London, Eng.	.....	" .....
" 26	" ..	61720	" " "	3 "	60	B. C. Vinegar Works, Vancouver.	.....	" .....
" 23	" ..	61727	Hudson's Bay Co., Kamloops.	3 "	65	.....	.....	" .....

DISTRICT OF VANCOUVER—

Oct. 27	Vinegar ..	55101	The Findlay Co. Stores, 3358 Commercial Drive, Vancouver.	3 bots.	75	Crosse & Blackwell, London, Eng.	.....	Pure Malt..
" 27	" ..	55102	Knight Bros., 11th Ave., and Commercial Drive, Vancouver.	3 "	40	Royal Mfg. Co., Vancouver.	.....	Royal Brand Malt. The name Empress Mfg. Co., Ltd., appear on lead capsules.
27	" ..	55103	Mitchell & Cahill, 1752 Commercial Drive, Vancouver.	3 "	45	Holbrook & Co., London, Eng.	.....	Pure Malt..

SESSIONAL PAPER No. 14

VINEGAR (MALT.)

Results of Analysis.												Remarks and Opinion of the Chief Analyst.
Grams. per 100cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgms. per 100cc.		Chlorides.	Sulphates.	Lead Acetate ppte.	Polarization.	No. of Sample.	
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

A. W. R. MARKLEY, INSPECTOR.

4.45	2.63	0.29	0.13	9.78	24.0	69.1	medium	medium	copious	.....	52019	Meets standard.
7.16	0.57	0.04	0.37	3.09	none	none	none	trace	none	.....	52024	Not malt vinegar. Adulterated.
4.80	2.92	0.335	0.16	1.50	6.16	7.12	"	medium	medium	.....	52025	Meets standard.

THOS. PARKER, INSPECTOR.

3.50	0.39	0.005	none	none	none	none	none	none	none	.....	61711	Not malt vinegar. Adulterated.
3.30	0.35	0.02	"	"	"	"	"	"	"	.....	61716	"
4.32	2.37	2.90	0.155	7.21	16.4	46.4	heavy	medium	heavy	.....	61719	Meets standard.
3.30	0.74	0.03	0.01	2.11	none	none	none	none	none	.....	61720	Not malt vinegar. Adulterated.
6.71	0.75	0.08	0.030	2.06	"	14.7	"	medium	"	.....	61727	"

E. J. MORGAN, INSPECTOR.

5.20	1.92	0.25		12.80	35.6	.....	heavy	med	heavy	.....	50101	Meets standard.
2.30	0.44	0.02	0.00	0.00	none	none	none	none	none	.....	50102	Not malt vinegar. Adulterated.
4.90	2.58	0.28		5.60	46.8	.....	heavy	med	heavy	.....	50103	Meets standard.

7 GEORGE V, A. 1917

BULLETIN No. 313.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER.—

1914.								
Oct. 28	Vinegar ..	55107	The Main Grocery Store, 1102 Commercial Drive, Vancouver.	3 bots.	75	Grinbles, London, Eng.		English Malt Guaranteed Pure.
" 29	" ..	55109	Quality Mfg. Co., 358 Broadway W., Vancouver.	3 "	45			Malt. Bottled by Vendor.
" 29	" ..	55110	A. C. Bartig, 2441 Granville st., Vancouver.	3 "	45		W. J. Pendray & Sons, Ltd., Victoria.	English Malt Guaranteed Pure
Dec. 16	" ..	55152	B. C. Vinegar Works, Vancouver.	3 "	25	Vendors.....		Mackenzie's Pure Malt. Made from Pure Mal

DISTRICT OF VICTORIA.—

Nov. 5	Vinegar ..	62001	The Windsor Grocery Co., 817 Govt. st., Victoria.	3 pts.	60		W. K. Houston & Co., Victoria.	Malt.....
" 5	" ..	62002	"	3 qts.	75	Crosse & Blackwell, London, Eng.		Pure Malt .
" 6	" ..	62009	The West End Grocery Co., Ltd., 1002 Govt. st., Victoria.	3 "	45	B. C. Vinegar Works, Vancouver.		Pure Canadian Malt
" 6	" ..	62010	"	3 pts.	30		R. P. Rithet & Co., Ltd., Victoria.	Malt.....
" 10	" ..	62018	Dixie H. Ross, 1317 Govt. st., Victoria.	3 "	30		W. J. Pendray & Sons, Ltd., Victoria.	"
" 11	" ..	62023	Acton Bros., 1317 Douglas st., Victoria.	3 pts.	30		W. K. Houston & Co., Victoria.	Malt.....
" 11	" ..	62024	"	3 qts.	75	Holbrook & Co., London, Eng.		"

SESSIONAL PAPER No. 14

VINEGAR (MALT).

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Grams. per 100 cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgnis. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate ppt.	Polarization.		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

Concluded.

5.30	2.66	0.43	...	4.0	trace	...	heavy	heavy	heavy	...	55107	Meets standard.
5.50	0.40	0.03	...	6.0	"	...	trace	"	none	...	55109	Not malt vinegar Adulterated.
3.60	0.31	0.02	...	2.8	"	...	"	trace	"	...	55110	"
3.10	0.40	0.01	...	4.2	"	...	none	none	none	...	55152	"

D. O'SULLIVAN, INSPECTOR.

3.63	0.23	0.02	.005	1.03	8.0	7.3	none	none	none	...	62001	Not malt vinegar. Adulterated.
4.72	2.24	.220	.080	6.18	7.3	49.3	heavy	med	heavy	...	62002	Meets standard.
2.80	0.83	0.02	.005	1.03	none	none	none	none	none	...	62009	Not malt vinegar. Adulterated
3.80	0.36	0.03	.002	0.0	none	12.1	"	"	"	...	62010	"
6.29	0.51	0.01	0.01	1.03	trace	10.2	"	"	"	...	62018	"
7.03	0.42	0.03	.00	"	"	"	med	"	"	...	62022	Not malt vinegar. Adulterated
4.47	2.92	.316	...	2.80	trace	...	trace	heavy	opacous	...	62024	Meets standard

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1914.								
Dec. 29	Vinegar .	54216	Wm. Moore, Halifax, N.S.	3 qts.	30	N. H. Groves, Bridgetown, N.S.	Mfr.	Apple Cider.
" 29	" ..	54217	J. L. Wilson, " "	3 pts.	24	Valley Cyder Co., Bridgetown, N.S.	" ..	"
" 30	" .	54218	John Tobin & Co., Halifax, N. S.	3 "	20	" "	" ..	Cider.

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 29	Vinegar ..	60133	W. W. Walker, Ch. Town, P.E.I.	2 pts.	15	.....	R. F. Maddigan & Co., Charlottetown, P.E.I.	Cider.
" 30	" ..	60134	R. F. Maddigan & Co., Charlottetown, P.E.I.	3 bots.	20	.....	Valley Cider Co., Bridgetown, N.S.	" ..

DISTRICT OF NEW BRUNSWICK—

Nov. 13	Vinegar ..	59603	W. C. Broadbent, St. John, N.B.	3 pts	15	.....	.....	XX Cider..
" 17	" ..	59604	J. Rankin Brown, Woodstock, N.B.	3 "	15	W. M. Graves, Co., Bridgetown, N.S.	Geo. E. Barbour Co. Ltd. St. John, N.B.	Cider. ...
Dec. 8	" ..	59608	King Asbell & Co., Sussex, N.B.	3 "	15	M. W. Graves & Co., Bridgetown, N.S.	.....	" ..

DISTRICT OF OTTAWA—

Oct. 24	Vinegar ..	63513	J. L. P. Saunders, Kemptville.	3 bots.	10	Queen City Vinegar Co., Toronto.	.....	XX Cider ..
" 31	" ..	63515	A. J. Macdonald, Smiths Falls.	3 "	10	Wilson Lytle & Badgerow Ltd. Toronto.	.....	XXX Cider.

SESSIONAL PAPER No. 14

VINEGAR (CIDER).

Results of Analysis.

Grams per 100cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgms. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate pptc.	Polarization.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

R. J. WAUGH, INSPECTOR.

4.08	2.102	0.348	0.316	42.0	7.44				Med.	-0.8	54216	Meets standard.
2.83	1.696	0.335	0.303	42.4	8.03				"	-0.8	54217	"
2.49	1.976	0.250	0.210	30.6	3.17				"	-0.6	54218	except in acid strength. Pass.
												Meets standard except in acid strength and phosphates. Pass.

WM. A. WEEKS, INSPECTOR.

3.00	1.760	0.230		16.4	10.8		Trace.	Trace.	Copious.	-0.8	60133	Meets standard except in acid strength. Pass.
3.40	1.690	0.210		17.6	10.0		"	"	"	-0.2	60134	Meets standard.

JNO. C. FERGUSON, INSPECTOR.

3.40	1.780	0.160		5.6	Trace		None	None	None	-1.0	59603	Not cider vinegar. Adulterated.
3.80	2.03	0.290		36.0	9.5		"	Slight trace	Copious.		59604	Meets standard.
3.58	1.65	0.30		40.4	12.4		"	"	"	-0.4	59605	"

J. A. RICEY, INSPECTOR.

3.30	1.72	0.14		20.4	11.0		Trace	Trace	Copious	-1.2	60446	Meets standard except ash. Pass.
3.58	3.72	0.20		22.4	5.6		"	"	"		60447	Meets Standard.

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1914.								
Nov. 5	Vinegar..	63517	Scott Bros., Hull	3 bots.	10	Lion Vinegar Co. Ltd., Montreal.		Cider.

DISTRICT OF KINGSTON—

Oct. 28	Vinegar..	61556	R. W. Marshall, Kingston.	1 qt..	10	.....	Fenwick Hendry Co., Kingston.	Cider.
" 28	" ..	61558	J. R. B. Gage, Kingston.	1 "	10	.....	A. Maclean, Kingston.	"
" 29	" ..	61561	C. R. McLeod, "	1 "	19	D. B. Murray, Kingston.	.....	" .....
" 29	" ..	61564	W. J. Lee, Kingston.	1 "	10	" "	.....	" .....

DISTRICT OF TORONTO—

Nov. 16	Vinegar..	64559	Stephens Store Ltd., Collingwood.	3 pts.	10	Long Bros., Collingwood.	Queen City XXXCider
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DISTRICT OF HAMILTON—

Nov. 2	Vinegar..	64507	J. McKim, Orangeville.	3 pts.	15	Port Dover Evap. Co., Port Dover.	Cider
" 3	" ..	64509	J. A. Armour, Owen Sound.	3 "	15	Taylor & Pringle Co., Ltd., Owen Sound.	.....	" .....
" 10	" ..	64516	P. & R. Laing, Dundas.	1 qt..	10	Vendors .....	.....	" .....

DISTRICT OF WINDSOR—

Nov. 3	Vinegar..	63935	A. A. Rapson, Woodstock, Ont.	1 qt..	15	S. Allen & Co., Norwich.	.....	Cider ..
" 3	" ..	63941	Lewis & Son, Woodstock, Ont.	1 "	10	Wilson, Lytle, Badgerow, Ltd., Toronto.	.....	" Blended

SESSIONAL PAPER No. 14

VINEGAR (CIDER).

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Grams per 100 cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgms. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate ppt.	Polarization.		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

Concluded.

4.03	0.26	0.03	4.8	Trace.	None...	None...	None..	-0.2	63517	Not cider vinegar. Adulterated.
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JAS. HOGAN, INSPECTOR.

3.83	1.35	0.18	0.09	19.2	11.2	Trace..	None...	None...	-1.6	61556	Not cider vinegar. Adulterated.
4.47	1.62	0.29	0.145	24.4	9.5	..	None...	"	"	-1.8	61558	Meets standard.
3.98	2.34	0.370	0.285	40.0	16.0	.....	Trace...	Trace...	Med...	-0.2	61561	"
4.82	1.87	0.23	0.180	30.8	14.0	.....	None	None...	None..	-1.0	61564	"

H. J. DAGER, INSPECTOR.

3.93	0.71	0.09	0.060	5.2	4.1	None	Med...	None...	Trace...	-0.6	64559	Not cider vinegar. Adulterated.
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H. J. DAGAR, ACTING INSPECTOR.

4.07	2.43	0.210	0.175	23.6	12.0	none	medium	trace...	medium	-2.0	64507	Meets standard.
3.73	1.88	0.24	0.120	18.0	6.0	"	"	medium	"	-0.5	64509	"
4.92	2.06	0.295	0.240	30.9	trace	"	none	heavy	trace...	-2.0	64516	Meets standard, except phosphates. Pass.

JNO. TALBOT, INSPECTOR.

3.93	3.07	0.270	.....	35.6	10.8	.....	none	slight trace.	medium	-1.0	63930	Meets standard
3.75	2.07	0.26	.....	26.8	11.1	.....	"	"	medium	-0.2	63941	"

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR—

1914.								
Nov. 4	Vinegar ..	63946	H. M. Scott, Tillsonburg.	1 qt..	8	Port Dover Evap. Co., Port Dover.		Cider
" 5	" ..	63960	O. R. Hauselman, Simcoe.	3 pts.	9	" "		"
" 5	" ..	63961	Cruickshank Bros., Simcoe.	3 "	12	Lea Bros., Simcoe.		"

DISTRICT OF MANITOBA—

Nov. 10	Vinegar .	61203	A. F. Higgins & Co., Carman.	3 pts.	25	The Dyson Co., Winnipeg.	Cider
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DISTRICT OF VANCOUVER—

Oct. 28	Vinegar .	55104	W. D. Fowler, 1,678 Commercial Drive, Vancouver, B.C.	3 bots.	60	McLachy Mfg. Co., Vanc., B.C.		Pure Apple Cider.
" 29	" ..	55108	E. Bailey, 537 Howe Street, Vancouver, B.C.	3 "	1'05	H. J. Heinz Co., Pittsburg, Pa.		Pure Cider. (Fermented.) 5 p.c. Acetic Strength.

DISTRICT OF ALBERTA—

Nov. 27	Vinegar ..	52028	A. M. Campbell, Lacombe.	3 bots.	75	Alberta Empress Co., Ltd., Calgary.		Cider
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SESSIONAL PAPER No. 14

VINEGAR (CIDER).

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Grams per 100 cc.			Soluble Ash.	Alkalinity of Soluble Ash cc N/10 acid per 100 cc.	Phosphates P ₂ O ₅ Mgrs. per 100 cc.		Chlorides.	Sulphates.	Lead Acetate ppt.	Polarization.		
Acidity as Acetic.	Total Solids.	Ash.			Soluble.	Insoluble.						

Concluded.

3.20	1.17	0.27	.....	33.2	9.1	trace	trace...	slight trace.	heavy ..	-1.2	63946	Meets standard, except solids.
3.68	0.895	0.175	...	21.6	12.0	.....	none ..	"	medium	-0.2	63960	Pass. Not cider vinegar. Adulterated.
4.17	3.08	0.295	.....	33.2	16.8	.....	" ..	trace...	heavy ..	-1.4	63961	Meets standard.

A. C. LARIVIERE, INSPECTOR.

6.00	1.40	0.105	.....	.....	.....	.....	medium	trace...	.....	.....	61203	Meets standard, except ash.
												Pass.

E. J. MORGAN, INSPECTOR.

4.00	1.87	0.25	...	34.8	14.5	...	none	none	none ..	-1.8	55104	Meets standard.
5.50	2.10	0.32	...	42.0	9.5	...	"	"	heavy	-1.0	55108	

A. W. R. MARKLEY, INSPECTOR.

2.70	1.32	0.22	0.16	28.8	4.5	...	none ..	none ..	medium	-2.6	28828	Below standard. Doubtful.
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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.							
Jan. 11	Vinegar..	54222	J. D. Stewart, Halifax.....	3 qts.	25	E. S. Tracey, Halifax.	Mfr
" 20	" ..	54225	E. S. Tracey, Halifax	3 pts.	15	Vendor .....	.....

DISTRICT OF PRINCE EDWARD ISLAND—

1914.							
Oct. 24	Vinegar...	60127	Beer & Goff, Charlottetown.	3 pts.	30	McCready & Sons Ltd., St. John.	.....
" 24	" ..	60128	Jenkins & Sons, Charlotte-town.	3 qts.	50	H. J. Heinz Co., Pittsburg.	.....

DISTRICT OF NEW BRUNSWICK—

Nov. 20	Vinegar..	59606	John McKnight, Frederic-ton.	3 pts.	15	Wilson, Lytle & Badgerow Co., Toronto.	.....
Dec. 10	" ..	59610	D MacLachlin, Chatham ..	3 "	20	.....	Jones & Scofield, St. John.

DISTRICT OF QUEBEC CITY—

Nov. ' 2	Vinegar...	56299	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 pts.	40	T. Cessat, Bordeaux.	A. Toussaint & Cie.
" 4	" ..	60706	A. Grenier, 94 Rue St. Jean, Quebec.	3 "	80	Louis, Frere & Cie, Bordeaux.	Mfrs
" 5	" ..	60707	Cantin & Frere 271 Rue St. Joseph, Quebec.	3 "	50	Crosse & Blackwell..	Turcotte & Frere

DISTRICT OF EASTERN TOWNSHIPS—

Nov. 11	Vinegar...	63031	The Daly Grocery Co., Stanstead.	3 qts.	30	Canadian Vinegar Co., Montreal.	.....
23	" ..	63033	Lassonde & Frere, St. Hyacinthe.	3 "	35	.....	Larivière & Frere, Montreal
23	" ..	63035	Thomas Hebert, St. Hyacinthe.	3 "	36	.....	American Food Co., Montreal.

SESSIONAL PAPER No. 14

VINEGAR (WHITE WINE).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								Remarks and Opinion of the Chief Analyst.	
	Grams per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.			No. of Sample.
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.	Parts per 1,000 of Total Acid.		

R. J. WAUGH, INSPECTOR.

White Wine	3.60	0.115	0.071	...	...	...	...	...	54222	Is not wine vinegar.
"	3.55	0.198	0.001	...	...	...	...	...	54225	"

WM. A. WEEKS, INSPECTOR.

White Wine	5.96	0.170	0.010	Med.	Trace.		None	...	60127	Is not wine vinegar.
"	4.37	0.130	0.020	Trace.	"			...	60128	"

J. C. FERGUSON, INSPECTOR.

White Wine ..	4.42	0.11	0.005	None	None	Ppt.			56600	Is not wine vinegar.
" ..	3.93	0.505	0.005	Trace.	"				56610	"

F. X. W. E. BELAND, INSPECTOR.

Wine	2.6	6.88	0.420	Trace.	Trace.				54226	Acidity too low
"	5.49	1.63	0.161		Med.				60708	Genuine.
"	1.81	2.14	0.260	Med.					60707	"

J. J. COSTIGAN, ACTING INSPECTOR.

White Wine ..	4.0	0.095	0.015	Slight trace.	None	None			62000	Is not wine vinegar.
"	4.82	0.145	0.01		"	"			62002	"
"	4.82	0.150	0.020		"	"			62003	"

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1914.							
Nov. 24	Vinegar ..	63037	N. Lacroix, Sherbrooke ...	3 qts.	30	Wilson, L. B. Co.,	.....
" 24	" ..	63039	D. W. Stenson, Sherbrooke.	3 "	35	Ltd., Toronto.	.....
" 25	" ..	63040	Beaudry & Beauchemin, Granby.	3 "	20	.....	.....

DISTRICT OF MONTREAL--

Nov. 24	Vinegar..	62525	Beaudoin & Couture, 497 Lasalle Rd., Verdun.	3 qts.	32	Canadian Vinegar Co., Montreal.	.....
" 24	" ..	62528	O. Trudeau, 1394 Wellington St., Verdun.	3 pts.	24	.....	Geo. Perry, Montreal.
" 25	" ..	62530	E. Menard, 169 Galt Ave., Verdun.	...	15	.....	Hudon, Hebert..
" 26	" ..	62532	G. H. Langevin, 414 St. Lawrence Boul., Montreal.	3 bots.	90	Unknown .....	.....

DISTRICT OF VALLEYFIELD—

Dec. 9	Vinegar..	62811	Geo. Dixon, Huntingdon ...	3 pts.	13	.....	.....
" 19	" ..	62814	G. Bourdon, Longueuil ...	3 "	15	.....	.....
" 15	" ..	62816	J. Z. Daoust, Valleyfield ...	3 "	20	.....	.....
" 15	" ..	62817	E. Bougie, "	3 "	15	.....	.....
" 15	" ..	62818	A. R. Biron, "	3 "	15	.....	.....

DISTRICT OF OTTAWA—

Oct. 23	Vinegar..	63511	Estate Late Chas. Logue, Central Store, Maniwaki.	3 bots.	18	H. J. Heinz, Pitts- burg.	Mfrs.
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SESSIONAL PAPER No. 14

VINEGAR (WHITE WINE).

Inspector's Report. (Is not an expres- sion of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grams per 100cc.			Chlorides.	Sulphates.	Iodine Test for Fermented Vinegar.	Formic Acid.			
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.	Parts per 1,000 of Total Acid.		

Concluded.

White Wine	3.93	0.120	0.015	Slight trace.	Trace.	Trace.			63037	Is not wine vinegar.
"	5.04	0.110	0.015	"	"	"			63039	"
Wine	5.85	0.145	0.015	"	None.	"			63040	"

D. J. KEARNEY, INSPECTOR.

White Wine	5.64	0.180	0.005	Trace.	None.				62525	Is not wine vinegar.
White	4.18	0.355	0.005	"	"				62528	"
White Wine	6.10	0.185	0.025	"	Trace.				62530	"
"	4.94	0.805	0.085	Heavy.	"	None.			62532	"

J. J. COSTIGAN, ACTING INSPECTOR.

White wine	4.0	0.9	0.002	None.	Trace.	None.	Trace.		62811	Is not wine vinegar.
"	5.76	0.125	0.01	"	None.	Ppt.			62814	"
"	3.98	0.105	0.015	Slight trace.	Trace.	Trace.			62816	"
"	5.66	0.17	0.01	"	Med.	Ppt.			62817	"
"	6.0	0.28	0.02	None.	None.	None.	0.9		62818	"

I. A. RICKEY, INSPECTOR.

White wine	4.37	0.140	0.025	Trace.	None.				63011	Is not wine vinegar.
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7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1914.							
Nov. 16	Vinegar...	64558	S. J. Bailey, Collingwood ..	3 pts.	10	Wilson, Lytle, Badgerow Co. Ltd., Toronto.	.....
" 18	" ..	64560	W. M. Thompson, Penetang	3 bots	10	" "	.....
DISTRICT OF HAMILTON—							
Nov. 3	Vinegar...	64508	W. J. Ward, Owen Sound ..	3 pts.	20	Queen City Vinegar Co. Ltd., Toronto.	.....
" 4	" ..	64511	E. Irwin, Warton.....	3 "	10	S. Allen, Norwich..	.....
" 5	" ..	64512	H. Bruder, Hanover . . .	3 "	12	Lion Vinegar Co., Montreal.	.....
" 9	" ..	64515	E. M. Precious, 409 Barton st. E., Hamilton.	1 qt..	10	S. Allen, Norwich...	.....
DISTRICT OF WINDSOR—							
Nov. 3	Vinegar...	63933	John Scott & Co., Woodstock.	1 qt..	10	Wilson, Lytle. . .	.....
" 3	" ..	63936	Wm. Buggs & Son, Woodstock.	3 pts.	15	.....	Grocers Ltd., Toronto.
" 4	" ..	63951	F. H. Simpkins, Tillsonburg	3 jars.	15	Heinz Pickling Co..	.....
" 5	" ..	63958	R. Edwards, Simcoe	3 pts	12	S. Allen, Norwich..	.....
" 5	" ..	63962	L. F. Aiken, "	3 "	15	" "	.....
DISTRICT OF MANITOBA—							
Nov. 3	Vinegar...	61201	Wm. Muir, Brandon. . . .	3 pts.	30	Wilson, Lytle. . . .	.....
DISTRICT OF SASKATCHEWAN—							
Oct. 28	Vinegar..	64054	Agnews Ltd., Prince Albert	3Bots.	15	.....	A. McDonald Co
Nov. 3	" ..	64083	W. G. Dey, Pense.....	3 "	15	The Dyson Co., Winnipeg.	Mfrs.....

SESSIONAL PAPER No. 14

VINEGAR (WHITE WINE).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grams per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.		
	Acidity of Acetic.	Total Solids.	Ash.				Mgms. per 100cc. Parts per 1,000 of Total Acid.		

H. J. DAGER, INSPECTOR.

White wine	3.73	0.260	0.015	None . .	None . .				64558	Is not wine vinegar.
"	3.55	0.185	0.01	Slight trace.	None . .				64560	" "

H. J. DAGER, ACTING INSPECTOR.

White wine . . .	4.32	0.175	0.045	Trace.	None . .				64508	Is not wine vinegar.
"	3.4	0.440	0.030	" "	" "				64511	" "
"	4.18	0.315	0.015	" "	" "				64512	" "
"	4.64	0.265	0.035	" "	Trace.				64515	" "

JOHN TALBOT, INSPECTOR.

Wilson's XXX white wine.	4.72	0.310	0.065	Trace.	None . .				63933	Is not White Vinegar.
White wine . . .	2.63	0.160	0.030	" "	" "				63936	" "
"	4.87	0.540	0.050	None . .	" "				63937	" "
"	4.52	0.305	0.055	Trace.	" "				63938	" "
"	4.17	0.180	0.010	None . .	" "				63942	" "

A. G. LARIVIERE, INSPECTOR.

White wine	5.72	0.150	0.025	Trace.	Med				61201	Is not wine vinegar.
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L. H. HALL, INSPECTOR.

White Wine (spirit)	4.23	0.430	0.090	med	none				64094	Is not White Vinegar.
"	5.90	0.80	0.055	"	trace				64095	" "

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—

1914.							
Nov. 25	Vinegar...	52023	R. B. Price, Camrose.....	3Bots.	75	G. F. & J. Galt Co., Ltd., Calgary.	

DISTRICT OF ROCKY MOUNTAINS—

Nov. 10	Vinegar..	61709	E. W. Hazelwood, Trail....	3Bots.	60	Empress Mfg. Co., Vancouver.	
" 20	" ..	61717	Merritt & Dist., Indust. Cook Soc'y., Merritt.	3 "	60	W. J. Pendray & Sons, Victoria.	
" 20	" ..	61718	Merritt Mercantile, . C o., Merritt.	3 "	75	B. C. Vingar Works, Vancouver.	

DISTRICT OF VANCOUVER—

Oct. 28	Vinegar...	55105	F. Lyons, 1609 Commercial Dr., Vancouver.	3Bots.	45	B. C. Vingar Works, Vancouver.	
Dec. 16	" ..	55151	B.C. Vingar Works, Vancouver.	3 "	25	Vendors.....	

DISTRICT OF VICTORIA—

Nov. 9	Vinegar...	62011	Copas & Young, Broad & Sts., Victoria.	3 Pts.	30	.....	W. K. Houston & Co., Victoria.
" 11	" ..	62028	H. O. Kirkham Co., Ltd., 741 Fort St., Vancouver.	3 "	30	Unknown.....	Unknown

SESSIONAL PAPER No. 14

VINEGAR (WHITE WINE).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst	
	Grams per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinger.	Formic Acid.			
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.			Parts per 1,000 of Total Acid Acid.

A. W. R. MARKLEY, INSPECTOR.

Perfect Jem, Pure White Wine.	4.70	0.46	0.08	heavy	heavy	—	trace	—	52025	Is not Wine Vinegar
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THOS. PARKER, INSPECTOR.

White Wine.	3.5	.120	.010	none	none	none	none	—	61709	Is not Wine Vinegar
" " "	3.5	.125	.010	"	"	"	trace	—	61717	" "
" " "	3.2	.105	.008	"	"	"	"	—	61718	" "

E. J. MORGAN, INSPECTOR.

Pure White Wine warranted x x x, bottled by ven- dor.	4.17	.14	.035	none	none	ppt.	trace	—	65196	Is not Wine Vinegar
MacKenzie's Pure White Wine made from Pure grapes.	3.60	.07	.001	"	"	"	none	—	55191	" "

D. O. SULLIVAN, INSPECTOR.

White Wine.	3.73	.10	.005	none	none	ppt.	—	—	62011	Is not Wine Vinegar
" "	5.69	.105	.020	trace	—	none	—	—	62325	" "

7 GEORGE V, A. 1917

BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1914.							
Dec. 30	Vinegar ..	54219	John Tobin & Co., Halifax	3 pts.	20	Heinz Co., Pittsburg	Mfr

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 27	Vinegar...	60131	Coffin & Co., Charlotte town.	3 pts.	18	McCready & Son.. Ltd., St. John.	.....
" 28	" ...	60139	R. Mutch & Co., Charlotte town.	3 bots.	15	Wilson, Lytle, Badgerow Co., Ltd., Toronto.	.....
" 30	" ...	60135	Carvell Bros., Charlotte town.	3 "	15	McIntyre Vinegar Works, St. John.	.....

DISTRICT OF NEW BRUNSWICK—

Nov. 13	Vinegar ..	59602	T. McCready & Sons, Ltd., St. John.	3 pts.	15	Vendors .....	.....
" 19	" ...	59605	B. Beveridge, Andover. .	3 "	25	McIntyre's Bonded Vinegar Factory No. 2, St. John.	Jones, Scofield, St. John.
" 26	" ...	59607	Hill Bros., St. Stephen.....	3 "	15	McCready & Son, Ltd., St. John.	.....
Dec. 9	" ...	59609	Mrs. P. White, Moncton ...	3 "	15	" "	Read & Co., Moncton.

DISTRICT OF QUEBEC CITY—

Nov. 2	Vinegar ..	60702	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 pts.	30	St. Lawrence Co., Quebec.	Mfrs
" 2	" ...	60703	" " " "	3 "	30	" " "	.....
" 2	" ...	60704	" " " "	3 "	105	E.D. Smith, Winona, Ont.	Turcotte & Frere
" 5	" ...	60708	J. H. Turcotte, 92 Rue Caron, Quebec.	3 "	30	St. Lawrence Co., Quebec.	Mfrs

DISTRICT OF QUEBEC PROVINCE—

Nov. 4	Vinegar ..	56401	Alphonse Roy, St. Angele..	3 pts.	20	.....	Turcotte & Frere
" 4	" ...	56404	Dame Hector Hudon, St. Angele.	3 "	20	Unknown	Unknown

SESSIONAL PAPER No. 14

VINEGAR (OTHER THAN WHITE WINE, MALT AND CIDER).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								Remarks and Opinion of the Chief Analyst	
	Grams per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.			No. of Sample.
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.	Parts in 1,000 of Total Acid.		

R. J. WAUGH, INSPECTOR.

Crystal White....	4.02	0.138	0.030	Ppt.	54219	Genuine.
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WILLIAM WEEKS, INSPECTOR.

Spirit.....	5.91	0.145	0.015	None...	None...	60131	Genuine.
"	3.63	0.125	0.015	"	"	60132	"
"	3.67	0.260	0.015	" .....	" .....	.....	.....	.....	60135	"

JOHN C. FERGUSON, INSPECTOR.

Spirit.....	3.93	.130	.010	None...	Trace	.....	.....	.....	59602	Genuine.
"	3.62	.350	.015	Heavy.	"	trace.	None	.....	59605	"
Distilled Spirit Vinegar, cherry coloured.	4.07	.187	.007	Trace	"	Heavy	.....	.....	59607	Coloured.
Spirit White	3.93	.125	.002	None	"	Ppt.	.....	.....	59609	Genuine.

F. X. W. E. BELAND, INSPECTOR.

Proof	6.00	0.380	0.015	Trace	Trace	.....	.....	.....	60702	Genuine.
"	5.62	0.160	0.015	None	None	.....	.....	.....	60703	"
Raspberry Pure ..	.....	.....	.....	.....	.....	.....	Raspberry Vinegar	.....	60701	Raspberry vinegar.
.....	7.06	0.435	0.020	None...	None...	.....	.....	.....	60708	Genuine.

ALF. PELLETIER, N. CADIEUX, O. BROCHU, F. GENDREAU, TEMPORARY INSPECTORS.

.....	3.18	.250	.01	Trace	None	.....	.....	None	60401	Genuine.
.....	4.47	.570	.035	"	Trace	.....	.....	.....	60404	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC PROVINCE—							
1914.							
Nov. 6	Vinegar ..	56409	Philipe Bourgoin, Pricé....	3 pts.	20	.....	Langlois & Paradis, Quebec.
" 6	" ..	56410	Phileas Cote, St. Octave....	5 "	23	H. J. Heinz, Pittsburg.	.....
" 6	" ..	56414	Lonis M. Langlois, St. Octave.	3 "	20	" "	J. B. Renaud, Quebec.
" 6	" ..	56416	Paul Therriault, Kempt ..	3 "	20	.....	Whitehead & Turner, Quebec
" 9	" ..	56421	D. E. Bernier.	3 "	23	Unknown	Unknown
" 9	" ..	56424	La Cie Commerciale Langlais-Doran, Amqui.	3 "	23	H. J. Heinz, Pittsburg.	.....
" 9	" ..	56426	Joseph Goselin, Cider Hall, Sayabee.	3 "	20	.....	N. Rioux, Quebec.
" 9	" ..	56427	Alp. Fernando Boulian....	3 "	24	Unknown.....	Unknown
Oct. 28	" ..	2397	Charles Taillon, Paroisse St. Jerome.	3 "	23	.....	Chevalier & Pouliot, Joliette.
" 28	" ..	2399	Ernestide Beauchamp, Paroisse St. Jerome.	3 "	25	.....	Jos. Dufresne, Joliette
Nov. 2	" ..	213	A. Leduc, St. Agathe des Monts.	3 bots.	45	.....	.....
Dec. 26	" ..	245	P. E. Desjardines, St. Therese de Blainville.	3 "	90	L. A. Price, Bordeaux, France.	.....
Oct. 27	" ..	2574	Jos. Langlois, Armagh.....	1 qt.	12	St. Lawrence Vinegar Co.	.....
" 27	" ..	2575	" "	1 "	12	.....	Turcotte Frere, Quebec.
" 27	" ..	2579	M. Boulanger, Armagh.....	1 "	15	.....	A. B. Dupuis, Quebec.
" 27	" ..	2583	C. Beaudoin, Armagh.....	1 "	15	Boivine & Grenier, Quebec.	.....
" 27	" ..	2586	Arthur Fradette, Armagh..	1 "	15	A. B. Dupuis, Quebec.	.....
" 29	" ..	2588	Antoine Labrecque, St. Raphael.	1 "	15	Naz. Turcotte Cie, Quebec.	.....
" 29	" ..	2592	J. A. Lemieux, St. Michel..	1 "	12	St. Lawrence Vinegar Co.	.....
" 30	" ..	2593	George Roy, St. Michel....	1 "	14	" " ..	.....
" 30	" ..	2594	" "	1 "	10	" " ..	.....
Nov. 3	" ..	2595	Onesime Noel	1 "	15	" " ..	.....
Oct. 26	" ..	2856	Dorchester Lumber, St. Malachi.	1 "	10	" " ..	.....
Nov. 9	" ..	3703	A. J. Caillouette, St. Justine.	1 "	15	Carrier & Fils, Quebec.	.....
" 10	" ..	3702	Joseph Doyon, St. Justine..	1 "	15	St. Lawrence Vinegar Co., Quebec.	J. B. Renaud, Quebec.
" 11	" ..	3708	Elduc & Genest, St. Sabine.	1 "	15	" " ..	Drouin & Frere..

SESSIONAL PAPER No. 14

VINEGAR (OTHER THAN WHITE WINE, MALT AND CIDER).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							Remarks and Opinion of the Chief Analyst.	
	Grains per 100 cc.					Iodine test for fermented Vinegar.	Formic Acid.		
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.		Parts per 1,000 of Total Acid.
				Chlorides.	Sulphates.			No. of Sample.	

Continued.

	7.16	230	.025	Trace	Trace				56409	Genuine.
	3.98	150	.035	"	"				56410	"
	4.47	135	.030	"	None				56414	"
	6.71	425	.025	None	"				56416	"
	5.77	210	.02	Trace	"				56421	"
	4.47	160	.040	"	Trace				56424	"
	4.17	495	.035	None	None				56426	"
	5.07	155	.001	Trace	"				56427	"
Congo.	5.09	315	.010	"	"				2397	"
Proof.	5.57	259	.014	"	"				2399	"
The Sapho Jennal Special.	3.63	540	.020	None	Trace				213	"
	5.09	240	.010	Medium	None				245	"
Marseillais Natu- ral.	6.61	220	.015	Trace	"				2574	"
Coloie Belgia.	4.08	530	.025	"	"				2575	"
	4.75	775	.065	None	"				2579	"
Coloie	4.80	620	.025	"	"				2583	"
Coloie.	3.58	455	.020	"	"				2586	"
	4.87	500	.020	"	"				2588	"
	5.86	440	.020	Trace	"				2592	"
	6.16	595	.035	"	"				2595	"
	5.32	410	.030	None	"				2599	"
	4.92	275	.035	"	"				2601	"
	4.87	440	.025	"	"				2826	"
Proof	4.57	40	.02	"	"				3703	Below proof strength
	7.75	124	.385	Trace	"				3705	Genuine.
	4.38	445	.035	None	"				3708	"

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1914.							
Nov. 12	Vinegar...	3711	Jos. Turgeon, St. Isidore...	1 qt.	15	Bernier, Scotts Junc.	.....
13	" ..	3717	J. B. Turgeon, St. Isidore	1 "	15	" "	.....
Dec. 2	" ..	2871	D. Tarvel, St. Leon de Stan Jon.	1 "	15	Dorchester Lumber St. Malachi.	.....
" 2	" ..	2872	O. Audet, St. Leon de Stan don.	1 "	15	St. Lawrence Vinegar Co.	.....
" 3	" ..	2880	A. Clouthier, St. Odilon.	1 "	15	St. Lawrence Vinegar Co.	.....
" 4	" ..	2883	L. J. Audet, St. Edouard.	1 "	15	St. Lawrence Vinegar Co.	Dorchester Lumber.
" 8	" ..	3718	M. Dechine, St. Germaine Sta.	1 "	15	.....	J. B. Renaud, Quebec.
" 9	" ..	3722	D. Fortier, St. Rose Dorchester.	1 "	15	.....	Carrier & Fils, Levis.
" 10	" ..	3725	D. Roy, St. Prospere Dorchester.	1 "	25	.....	J. B. Renaud, Quebec.
" 21	" ..	3733	A. Mercier, St. Patrie de Beau rivage.	1 "	15	.....	" " ..
" 22	" ..	3734	O. Fradette, St. Narcisse neud Bois.	1 "	15	.....	N. Reno, Quebec.
" 22	" ..	3739	A. Demers, St. Narcisse neud Bois.	1 "	15	.....	Gagnon & Garent, Quebec.
" 23	" ..	3742	Jos. Blais, St. Bernard Dorchester.	1 "	15	.....	Bernier Scott, Dorchester.
Nov. 21	" ..	2724	Heurie Fournier, Capt St. Ignace.	3 pt.	25	.....	St. Laurent, Quebec.
" "	" ..	2726	Jos. M. Dube. Capt St. Ignace.	3 "	25	.....	Gagnon & Garent.
" 24	" ..	2732	Jos. Breton, St Pierre, Mont.	3 "	25	.....	J. B. E. Letellier, Quebec.

DISTRICT OF THREE RIVERS—

Oct. 30	Vinegar...	2640	Arthur Caisse, Berthier ville.	1 qt.	15	.....	Larivière Bros., Montreal.
" 30	" ..	2644	J. D. Daviault, Berthier ville.	1 "	15	.....	Laporte, Martin & Cie, Montreal.
" 26	" ..	2677	J. W. Lacasse, L'Assomption.	1 "	18	.....	Chevalier & Pouliot, Joliette.
" 26	" ..	2678	Louis Pauze, L'Assomption.	1 "	18	.....	Hudon Herbert, Montreal.
" 28	" ..	2679	Archibald Duff, Charlemagne.	1 "	15	.....	Mathewson Sons Co., Ltd., Montreal.
" 28	" ..	2681	Euclid Beauchamp, Charlemagne	1 "	15	.....	Hudon Orsali, Montreal.

SESSIONAL PAPER No. 14

VINEGAR (OTHER THAN WHITE WINE, MALT AND CIDER).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample	Remarks and Opinion of the Chief Analyst.	
	Grains per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.			
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.			Parts per 1000 of Total Acid.
<i>Concluded.</i>										
Proof	5.72	0.30	0.025	Trace	None			3711	Genuine.	
"	5.62	4.45	0.030	None	"			3717	"	
"	4.78	0.465	0.015	None	"			2871	"	
"	4.97	0.445	0.020	"	"			2872	"	
Proof	5.37	0.480	0.030	Trace.	"			2880	Slightly below proof	
"	7.85	0.560	0.025	None	"			2883	Genuine.	
"	4.77	0.325	0.010	"	"			3718	"	
"	5.58	0.535	0.020	"	"			3722	"	
"	4.93	0.215	0.010	"	"			3725	"	
"	4.52	0.405	0.035	"	"			3733	"	
"	4.42	0.565	0.025	"	"			3734	"	
"	6.01	0.390	0.015	Trace.	"			3739	"	
"	5.91	0.415	0.020	None	"			3742	"	
"	6.20	0.550	0.025	"	"			2724	"	
Vinagre Rouge.	6.15			"	"	Trace		2726	"	
"	5.86	0.42	0.03	"	"			2732	"	

DR. V. P. LAVALLEE, INSPECTOR.

.....	5.14	0.165	0.010	None	None				2840 Genuine.
"	4.87	0.345	0.020	Med	"	Trace			2841 "
"	5.37	0.390	0.010	Trace.	"				2877 "
"	5.72	0.735	0.180	Cop	Trace	Trace			2878 "
"	4.17	0.240	0.015	Trace	None				2879 "
"	5.81	0.250	0.015	"	"				2881 "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS—

1914.							
Oct. 28	Vinegar..	2683	Edm. Robillard, St. Paul L'Ernite.	1 qt	33	Underlop Co., Demi Johns Balmans, Montreal.	.....
" 29	" ..	2684	O. Carignan Fils, Three Rivers.	1 "	50	.....	J. B. Renaud & Cie, Quebec.
" 31	" ..	2698	Joseph Fernet, Fernetville.	1 "	10	.....	Chevalier & Pouliot, Joliette.
Nov. 2	" ..	3903	Arthur Tessier, St. Felix de Valois.	1 "	10	.....	" ..

DISTRICT OF EASTERN TOWNSHIPS—

Nov. 11	Vinegar..	63032	The Daly Grocery Co., Stanstead.	3 qts.	30	Canadian Vinegar Co., Montreal.	.....
" 23	" ..	63034	H. Messier, St. Hyacinthe.	3 "	25	.....	L. Chaput Fils & Cie, Montreal

DISTRICT OF MONTREAL—

Nov. 24	Vinegar..	62527	J. G. Garent, 381 Latale rd., Verdun.	3 bots	30	.....	The Lion Vinegar Co., Montreal.
" 26	" ..	62533	Albert Steinfeld, 83 Demontigny st. e., Montreal.	3 pts	21	Sapho. Man. Co., Montreal.	.....
" 26	" ..	62534	J. Hoffman, 106 Demontigny st. e., Montreal.	2 "	24	.....	P. Adelstein, Montreal.

DISTRICT OF VALLEYFIELD—

Dec. 10	Vinegar..	62813	Z. Lamare, Longueuil.....	3 pts.	15	.....	.....
" 15	" ..	62820	J. H. Boyer, New Salisbury.	3 "	15	.....	.....

DISTRICT OF OTTAWA—

Oct. 23	Vinegar..	63512	The Foster Bennett Co., Ltd., River Desert.	3 bots	60	Wilson, Lytle, Badgerow Co., Toronto	.....
" 24	" ..	63514	Jos. Martel & Cie, Hull....	3 "	15	The Lion Vinegar Co., Ltd., Montreal	S. J. Major, Ltd., Ottawa.

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VINEGAR (OTHER THAN WHITE WINE, MALT AND CIDER).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							Remarks and Opinion of the Chief Analyst.
	Grams per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.	
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100c.	
							No. of Sample.	

Concluded.

.....	5.43	0.275	0.030	None.	Trace.				2683	Genuine.
.....	5.81	0.595	0.015	Trace.	None.				2684	"
.....	4.82	.235	.015	Trace.	None.				2698	"
.....	5.53	.270	.025	"	"				3003	"

J. J. COSTIGAN, ACTING INSPECTOR.

Coloured spirit	5.17	.335	.015	None.	None.				63032	Genuine. Coloured.
Spirit	5.86	.145	.015	Slight trace.	"				63034	"

D. J. KEARNEY, INSPECTOR.

.....	4.28	1.46	.170	Heavy.	Heavy.		Trace		62527	Genuine.
.....	3.37	.250	.015	Trace.	Trace.		Trace		62533	"
.....	4.08	.280	.005	None.	None.				62534	"

J. J. COSTIGAN, ACTING INSPECTOR.

Spirit	6.48	.11	.002	Trace.	None.				62515	Genuine.
.....	5.37	.395	.020	Slight trace.	"		None		62520	"

J. A. RICKEY, INSPECTOR.

Pure Spirit (50 O. P.)	7.75	.140	.010	Trace.	None.				62512	Genuine.
Pure Reims Brand Pure Spirit Vinegar	5.92	.270	.025	"	Trace.				62514	"

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BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1914.							
Nov. 6	Vinegar ..	61519	L. Z. Caron, Nelson and Wilbrod sts., Ottawa.	3 bots	10	Heinz, Pittsburg....	
" 9	" ..	61520	Halpenny & Co., 590 Bank st., Ottawa.	3 "	10	The Lion Vinegar Co., Montreal.	

DISTRICT OF KINGSTON

Oct. 28	Vinegar ..	61557	John Gordon, Kingston....	1 qt..	10	H. J. Heinz, Dea- nington.	
" 28	" ..	61559	D. B. Murray, Kingston...	1 "	10	D. B. Murray, King- ston.	
" 29	" ..	61560	J. Gilbert, Kingston..	1 "	10	" ..	
" 29	" ..	61562	H. M. Stover, Kingston...	1 "	10	..... Fenwick, Hen- dry, Co., King- ston.	
" 29	" ..	61563	W. J. Arniel, Kingston....	1 "	10	D. B. Murray, King- ston.	

DISTRICT OF MANITOBA—

Nov. 10	Vinegar...	61204	H. Hastie, Carman....	3 pts.	15	J. C. Wilson, Toronto	The Codville Co., Winnipeg.
" 16	" ..	61208	Berney & Chapman, St. James, Man.	3 "	15	Blackwoods, Ltd., Winnipeg.	Mfrs.
" 16	" ..	61209	" ..	3 "	15	" ..	" ..
" 17	" ..	61210	D. Dalman, Selkirk....	3 "	30	" ..	" ..

DISTRICT OF SASKATCHEWAN—

Oct. 28	Vinegar...	64055	The McLeod Co., Prince Albert.	3 bots.	20	Pioneer Vinegar Co., Edmonton.	Northern Pro- duce Co.
Nov. 2	" ..	64078	Beacock & Hodges, Mort- lach.	3 "	20	Wilson, Lytle, Badge- row Co., Toronto.	H. G. Smith & Co., Regina.
" 5	" ..	64091	Paragon Store, Moosejaw...	3 qts.	60	White Star Mfg. Co., Winnipeg.	Crawford & Co., Moosejaw.

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VINEGAR (OTHER THAN WHITE WINE, MALT AND CIDER.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grains per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.		
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc. Parts per 1,000 of Total Acid.		

Concluded.

White Crystal Label Vinegar.	4 13	405	015	None.	None				63519	Genuine.
Pure Spirit Vine- gar.	3 88	145	015	Trace.	Trace.				63520	

JAMES HOGAN, INSPECTOR.

Spirit.	3 83	105	015	Trace.	Trace.				61557	Genuine.
"	9 24	180	015	"	"				61559	
"	3 60	075	010	Slight trace.	None		Trace.		61560	
"	4 35	130	015	"	"		Trace.		61562	
"	3 63	100	010	Trace.	Trace.				61563	

A. G. LARIVIERE, INSPECTOR.

.....	8 52	0 935	0 090	none.	med				61204	Genuine.
Spirit xxx Brown	2 77	0 530	0 060	heavy	heavy		trace		61208	Below standard strength
" White	3 60	0 275	0 055	"	"				61209	Genuine.
Pure White Spirit	5 84			"	"				61210	

L. H. HALL, INSPECTOR.

White Wine (Spirit).	4 94	0 390	0 020	trace	Trace.				64082	Spirit Vinegar Genuine.
" "	9 37	0 285	0 005	"	none		Trace.		64078	
White Wine White Star Brand.	4 57	0 525	0 030	heavy.	med				64081	

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BULLETIN No. 313—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ALBERTA—							
1914.							
Nov. 18	Vinegar...	52020	S. G. Freeze, Calgary . .	3 bots.	60	Simnington & Co., Calgary.	.....
" 18	" ...	52021	John Irwin & Co., Calgary.	3 "	60	The Dyson Co., Win- nipeg.	.....
" 24	" ...	52022	Pride Nash & Co., Stettler..	3 "	75	" "	.....
" 26	" ...	52026	Lake & Co., Wetaskiwin...	3 "	75	Pioneer Vinegar Co., Edmonton.	.....
" 26	" ..	52027	Fowler & Co., Wetaskiwin..	3 "	60	The Dyson Co., Win- nipeg.	.....
DISTRICT OF ROCKY MOUNTAINS—							
Nov. 10	Vinegar...	61710	E. W. Hazlewood, Trail....	3 bots.	60	Pure Fruit Mfg. Co., Vanc.	.....
" 23	" ...	61726	Hudsons Bay Co, Kam- loops.	3 "	65	Jones Bros. Co., Portland, Ore.	.....
DISTRICT OF VANCOUVER—							
Oct. 28	Vinegar ..	55106	Birds Grocery, 1304 Com- mercial Dr., Vance.	3 bots.	45	B.C. Vinegar Wks., Vanc.	.....
DISTRICT OF NOVA SCOTIA—							
Dec. 5	Vinegar...	65803	A. A. McDonald, New Glas- gow, N.S.	3 pts.	45	Heinz, Leamington, Ont.	Mfrs
" 5	" ...	65809	James McArthur	3 "	45	MacCreedy & Sons, St. John, N.B.	"
DISTRICT OF VICTORIA—							
Nov. 14	Vinegar ..	62019	Dixie H. Ross, Victoria, B.C.	3 qts.	60	Geo. Downs & Co., Ltd., Dublin.

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VINEGAR (OTHER THAN WHITE WINE, MALT AND CIDER.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grains per 100cc.			Chlorides.	Sulphates.	Iodine test for fermented Vinegar.	Formic Acid.			
	Acidity as Acetic.	Total Solids.	Ash.				Mgms. per 100cc.	Parts per 1,000 of Total Acid.		
A. W. R. MARKLEY, INSPECTOR.										
Finest pure xxx Table Vinegar, bottled expressly for Vendor.	4.02	0.375	0.035	none.	trace.				52920	Genuine.
Dyson's Red Cross Pure Spirit Wine Vinegar, Govt. standard.	5.61	0.32	0.09	med.	med.	ppt.	none.		52921	"
" " "	4.58	0.970	0.065	heavy	"	"	"		52922	"
Buffalo Brand White Wine Cider.	3.78	0.30	0.035	none	trace.		"		52923	Spirit Vinegar.
50 per cent Spirit White Wine, Govt. standard.	3.0	8.22	0.155	ppt.	ppt.		trace.		52927	Below standard strength.
THOS. PARKER, INSPECTOR.										
Pure Fruit.	2.5	0.150	0.010	none	none.		trace.		61719	Below standard strength.
White Pickling.	4.23	0.540	0.025	trace	trace.				61726	Genuine.
E. J. MORGAN, INSPECTOR.										
Pure Canadian, mfgd. and bottled in bond.	3.42	0.545	0.090	none	none.		trace.		55106	Genuine.
W. A. PETIPAS, TEMP. INSPECTOR.										
" " "	4.12	0.505	0.140	trace.	none.				62808	Genuine.
" " "	3.48	0.285	0.025	none					62809	"
D. OSULLIVAN, INSPECTOR.										
Pure Belmont	2.90	0.50	0.02	none	none.		none		62810	Below standard strength.

APPENDIX E.

BULLETIN No. 314 -WHITE PEPPER.

OTTAWA, May 28, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report dealing with three hundred and eighteen (318) samples of White Pepper, purchased throughout Canada by our inspectors in January, February and March of this year. To this I have appended as a supplement, the results of analysis of sixty-nine (69) samples of pepper collected in British Columbia during September and October of last year. This report therefore covers a total of three hundred and eighty-seven (387) samples of pepper.

The last named collection of sixty-nine samples was made in consequence of certain complaints by responsible persons, to the effect that adulterated pepper was being offered for sale in British Columbia. The results of analysis indicate that so far as samples taken by our inspectors are concerned, the complaint made was without foundation. Only one sample was found to be adulterated. Of the 318 samples purchased during the first three months of this year, 305 are found to be genuine.

Adulteration in the case of 13 samples consists in the addition of starch or flour, without notification to the purchaser. The amounts vary from about 10 to about 60 per cent. The percentage of adulteration is 4.1; a result which compares very favourably with that found in 1913 (Bull. 250) when 19 per cent. adulteration was found.

Correspondence with vendors has brought out the fact, that in many cases the pepper sold to our inspector as such, has been supplied by the manufacturer or furnisher as a compound article, and properly labelled such on the package or container. When this is the case, the retail dealer is quite evidently responsible for his action in selling the article without declaration of its compound character.

In a number of instances I find that the manufacturer labels his goods, "Compound XXX pepper," the triple X indicating a high grade article, and some retailers claim that they feel justified in selling it as *pure*, on this account. In several cases I find pepper to have been supplied to the retail dealer as "Pure Compound." Such labelling is entirely reprehensible, and I think that the small dealer who is induced to sell the article as *pure* in virtue of his having bought it with a label of the kind described, should have legal recourse against the furnisher.

While pepper continues to be one of the most notably adulterated foods, it is very gratifying to observe a great improvement in the character of this article since the enforcement of the Adulteration Act. The following synopsis is of interest:—

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Year of Inspection.	Percentage of Adulteration.
1876 and 1877	83.0
1878	70.0
1879	50.0
1880	43.0
1881	66.6
1882	69.0
1883	65.0
1884	71.0
1885	57.3
1886	51.3
1888	69.0
1890	52.0
1891	58.5
1894	46.8
1896	27.4
1899	20.0
1900	22.7
1904	55.4
1905	42.0
1908	24.1
1910	16.6
1913 (black)	17.0
1913 (white)	19.0
1915 (white)	4.1

I beg to recommend publication of this report as Bulletin No. 344

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN NO. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Feb. 26	White Pepper.	64111	J. L. Wilson & Co., Halifax, N. S.	3 pkgs	22	W. H. Schwartz & Sons, Halifax, N.S.	Mfrs.....
Mar. 4	"	64112	Bauld Bros. Ltd., Hali- fax, N. S.	3 "	27	" "	"
" 4	"	64113	Wm. Moore, Halifax, N. S.	3 lbs.	30	J. P. Mott & Co., Halifax, N. S.	"
" 4	"	64114	R. B. Seeton & Co., Halifax, N. S.	3 pkgs	27	W. H. Schwartz & Sons, Halifax, N.S.	"
" 5	"	64115	Payzant & King, Hali- fax, N. S.	3 "	21	J. P. Mott & Co., Halifax, N. S.	"
" 5	"	65116	Nat. Drug & Chem. Co., Halifax, N. S.	3 lbs.	30	Vendors ...	.....
" 5	"	64117	Jas. Scott & Co., Hali- fax, N. S.	3 "	30	W. H. Schwartz & Sons, Halifax, N.S.	Mfrs.
" 5	"	64118	Brown Bros. & Co., Hali- fax, N. S.	3 "	30	S. H. Ewing & Sons, Montreal.	"
" 6	"	64119	John P. Mott & Co., Halifax, N.S.	3 "	30	Vendors. ....	.....
" 9	"	64120	W. H. Schwartz & Sons, Halifax, N. S.	3 "	27	" .....	.....
" 12	"	64121	Yexas, Kentville, N.S.	3 pkgs	30	H. W. Cole, St. John, N. B.	Mfrs.....
" 12	"	64122	" " ..	3 "	30	White Swan S. & C Co., Toronto, Ont.	"
" 12	"	64123	Cross & De Wolfe, Kentville, N. S.	3 "	30	McCready & Sons, St. John, N. B.	"
" 15	"	64124	H. S. Hall, Bridgewater, N. S.	3 "	30	Todhunter & Mit- chell Co., Toronto.	"
" 16	"	64125	B. G. Oxner, Lunen- burg, N. S.	3 "	30	Gorman Eckhart, Toronto.	"

DISTRICT OF NOVA SCOTIA—

Feb. 19	White Pepper.	65821	2 Barker's Ltd., New Glasgow, N. S.	3 tins.	27	McLaren's, Ltd., Hamilton, Ont.	Unknown. ...
" 19	"	65825	James McArthur, New Glasgow, N. S.	3 "	30	G. E. Barbour, St. John, N. B.	Mfrs.....
" 19	"	65826	James Cavanagh, New Glasgow, N. S.	1 lb.	40	" " ..	"
" 19	"	65827	C. Grant, New Glasgow N. S.	3 tins.	30	Gorman, Eckert & Co., London, Ont.	"
" 19	"	65828	" " ..	3 pkgs	30	W. H. Schwartz, Halifax, N. S.	Unknown
" 19	"	65829	A. J. Roop, New Glas- gow, N. S.	1 lb.	40	Gorman, Eckert & Co., London, Ont.	Mfrs.....
" 19	"	65830	S. M. Lockhart, New Glasgow, N. S.	3 pkgs	30	G. E. Barbour, St. John, N. B.	"
" 19	"	65831	D. J. Murray, New Glasgow, N. S.	3 "	30	C. H. Cochrane & Co., Ottawa.	Unknown

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

R. J. WAUGH, INSPECTOR.

	p. c.			
.....	1.04	Pepper tissues only.....	64111	Genuine
.....	0.86	" ".....	64112	"
.....	1.16	" ".....	64113	"
.....	1.06	" ".....	64114	"
.....	1.02	" ".....	64115	"
.....	1.06	" ".....	64116	"
.....	1.20	" ".....	64117	"
.....	1.20	" ".....	64118	"
.....	1.14	" ".....	64119	"
.....	1.26	" ".....	64120	"
"Thistle" Brand.....	2.50	" ".....	64121	"
White Swan Brand.....	1.80	" ".....	64122	"
.....	1.44	" ".....	64123	"
.....	0.86	" ".....	64124	"
.....	1.20	" ".....	64125	"

W. A. PETIPAS, TEMPORARY INSPECTOR.

.....	1.02	Pepper tissues only.....	65824	Genuine
.....	0.90	" ".....	65825	"
.....	0.92	" ".....	65826	"
.....	1.98	" ".....	65827	"
.....	1.14	" ".....	65828	"
.....	1.68	" ".....	65829	"
.....	1.00	" ".....	65830	"
.....	0.82	" ".....	65831	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND—

1915.							
April 8	White Pepper.	60165	Jenkins & Son, Charlottetown, P.E.I.	1 lb..	40	John P. Mott & Co., Halifax, N.S.	.....
" 8	" ..	60166	Beer & Goff, Charlottetown, P.E.I.	3 pkgs	30	" ..	.....
" 8	" ..	60167	Coffin & Co., Charlottetown, P.E.I.	1 lb..	40	W. H. Schwartz & Son, Halifax, N.S.	.....
" 8	" ..	60168	E. Toombs, Charlottetown, P.E.I.	1 " ..	40	.....	Carvell Bros., Charlottetown, P.E.I.
" 8	" ..	60169	W. W. Walker, Charlottetown, P.E.I.	1 " ..	40	W. H. Schwartz & Son, Halifax, N.S.	.....

DISTRICT OF NEW BRUNSWICK—

Jan. 29	White Pepper.	59686	H. W. Cole, Ltd., St. John, N.B.	1 lb..	30	Vendors.....	.....
" 30	" ..	59687	Dearborn & Co., St. John, N.B.	3 tins.	40	" ..	.....
Feb. 1	" ..	59688	2 Barkers, Ltd., St. John, N.B.	1 lb..	30	" ..	.....
" 3	" ..	9689	Walter Gilbert, St. John, N.B.	3 tins.	30	Pure Gold Mfg. Co., Ltd., Toronto, Ont.	.....
" 9	" ..	59690	G. E. Barbour Co., Ltd., St. John, N.B.	3 pkgs	30	" ..	.....
" 9	" ..	59691	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	1 lb..	25	" ..	.....
" 10	" ..	59692	L. H. Thorne, St. John, N.B.	1 " ..	30	" ..	.....
" 16	" ..	59693	Hill Bros., St. Stephen, N.B.	1 " ..	50	Wright, Crossley & Co., Liverpool, Eng.	.....
" 19	" ..	59694	Baird & Peters, Fredericton, N.B.	3 pkgs	30	Jno. P. Mott & Co., Halifax, N.S.	.....
" 24	" ..	51 695	J. L. White, Grand Falls, N.B.	3 " ..	30	G. E. Barbour & Co., Ltd., St. John, N.B.	.....
Mar. 2	" ..	59696	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 lb..	50	H. W. Cole, Ltd., St. John, N.B.	.....
" 3	" ..	59697	Reed Co., Ltd., Moncton, N.B.	3 pkgs	26	Jno. P. Mott & Co., Halifax, N.S.	.....
" 3	" ..	59698	Geo. A. Robertson, Moncton, N.B.	1 lb..	41	S. H. & A. S. Ewing, Montreal.	.....
" 3	" ..	59699	Simon Melanson, Moncton, N.B.	1 " ..	40	C. H. Cochrane & Co., Ottawa, Ont.	.....
" 3	" ..	59700	J. T. Ryan, Moncton, N.B.	3 pkgs	30	Nat. Drug and Chem. Co., St. John, N.B.	.....

DISTRICT OF QUEBEC CITY—

Jan. 20	Poivre Blanc.	60774	Arthur Drolet, 712 Rue St. Valer, Quebec.	1 lb..	40	Unknown.....	Langlois & Paradis.
" 22	" ..	60775	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	1 " ..	50	" ..	J. B. Renaud & Cie.

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

WM. WEEKS, INSPECTOR.

	p. c.			
.....	1 18	Pepper tissues only	60165	Genuine.
.....	0 86	" "	60166	"
.....	1 08	" "	60167	"
.....	1 32	" "	60168	"
.....	1 54	" "	60169	"

JOHN C. FERGUSON, INSPECTOR.

.....	1 08	Pepper tissues only	59686	Genuine.
"National Brand"	2 40	" "	59687	"
.....	1 20	" "	59688	"
.....	1 16	" "	59689	"
"Acorn Brand"	1 02	" "	59690	"
.....	4 04	" " Black Pepper	59691	Is black pepper
.....	1 14	" "	59692	"
.....	1 10	" "	59693	"
.....	1 16	" "	59694	"
"Acorn Brand"	6 06	" " Black Pepper	59695	Is black pepper
.....	2 50	" "	59696	"
.....	1 14	" "	59697	"
.....	2 24	" "	59698	"
.....	0 92	" "	59699	"
.....	1 10	" "	59700	"

F. N. W. E. BELAND, INSPECTOR.

.....	1 57	Pepper tissues only	60774	Genuine.
.....	1 23	" "	60775	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
Jan. 22	Poivre Blanc.	60776	C. Riverin, 55 Rue de la Couronne, Quebec.	1 lb.	50	Unknown.....	Turcotte & Frere
" 22	"	60777	W. Pampalon, 120 Rue D'Orchester, Quebec.	1 "	40	"	N. Turcotte & Cie.
" 26	"	60778	Eng. Lacasse, 48 Rue St. Ambroise, Quebec.	1 "	50	Unknown.	"
" 26	"	60779	J. B. Lapointe, 57 Rue St. Ambroise, Quebec.	1 "	40	"	"
" 26	"	60780	W. Bilodeau, 13 Rue St. Therese, Quebec.	1 "	40	"	Unknown
" 26	"	60781	Jean Gauthier, 50 Rue Boilard, Quebec.	1 "	40	"	Turcotte & Frere
" 26	"	60782	J. Pepin, 132 Rue Massue, Quebec.	1 "	40	Ewing & Co., Montreal.	Mfrs.
" 26	"	60783	E. Belzerite, 190 Rue Massue, Quebec.	1 "	40	Unknown.....	Drouin & Frere.
" 26	"	60784	Jos. Peltier, 185 Rue Massue, Quebec.	1 "	40	"	J. B. Renaud & Cie.
" 26	"	60785	R. Picard, 132 Rue St. Luc, Quebec.	1 "	40	"	Drouin & Frere.
" 26	"	60786	D. Barrette, 142 Rue Napoleon, Quebec.	1 "	40	"	Quebec Preserving Co.
" 26	"	60787	De l Petitclerc, 99 Rue St. Germain.	1 "	40	"	N. Rioux & Cie.
" 26	"	60788	Jos. Blondeau, 101 Rue St. Germain, Quebec.	1 "	40	"	N. Turcott & Cie.

DISTRICT OF QUEBEC PROVINCE—

Jan. 18	Poivre Blanc..	3745	Syndica de Thetford Mines.	1 lb..	40	S. H. Ewing & Son Montreal.	.....
" 20	"	3751	John O'Brien, Black Lake, Megantic.	3boite	30	Chaput & fils, Montreal.	.....
" 25	"	3756	Dodier Crate, Levis..	1 lb.	40	C. H. Cochrane & Co., Ottawa.	.....
" 28	"	3771	Louis Mercier & Co., Levis.	1 "	40	Unknown. ....	.....
" 30	"	3777	Frs. Bourret, 145 St. Paul, Quebec.	1 "	45	"	Unknown
Feb. 2	"	3782	P. L. Turgeon, Enregistre, Quebec.	1 "	40	S. H. Ewing & Son, Montreal.	.....
" 2	"	3783	Boyer & Son, Quebec.	1 "	50	Leblanc, Ltd., Montreal.	.....
" 4	"	3787	A. Bailly, Quebec	1 "	40	Herron Leblanc, Lt l., Montreal.	.....
" 10	"	3789	Lacasse & Aude, St. Eward.	1 "	40	Dorchester Lumber.	.....
" 11	"	3792	G. E. Dussault, St. Marguerite.	1 "	40	Brunnette & Cie, Quebec.	.....
" 8	"	3503	Adelard Belanger, St. Lazare.	1 "	35	Drouin Frere & Ratt-ray, Quebec.	.....
" 8	"	3504	Alph. Bilodeau, St. Lazare.	1 "	35	Naz. Turcotte & Cie.	.....

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p.c.			
.....	1.51	Pepper tissues only.	60776	Genuine.
.....	2.26	Pepper tissues and about 30 to 40% wheat starch.	80777	Adulterated.
.....	2.86	Pepper tissues and about 15 to 20% maize starch.	60778	"
.....	1.15	Pepper tissues only.....	60779	Genuine.
.....	2.21	" "	60780	"
.....	1.84	" "	60781	"
.....	2.14	" "	60782	"
.....	1.88	" "	60783	"
.....	1.84	" "	60784	"
.....	2.66	" "	60785	"
.....	1.15	" "	60786	"
.....	1.17	" "	60787	"
.....	1.14	" "	60788	"

J. E. AUDET, N. CADIEUX, T. GENDRON, ALF. PELLETIER, TEMP. INSPECTORS

.....	2.83	Pepper tissues only	3745	Genuine.
.....	3.23	" "	3751	"
.....	2.67	" "	3756	"
.....	3.78	" "	3771	"
.....	1.16	" "	3777	"
.....	2.19	" "	3782	"
.....	2.36	" "	3783	"
.....	2.31	" "	3787	"
.....	1.10	" "	3789	"
.....	2.77	" "	3792	"
.....	2.69	" "	3803	"
.....	2.21	" " and about 2% to 30 per cent wheat starch.	3804	Adulterated.

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
					Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC PROVINCE.								
1915.								
Feb.	8	Poivre Blanc.	3507	J. B. W. Roy, St. Ger- vais,	1 lb.	40	Turcotte frere, Que- bec.	
"	8	"	3509	G. Carrier, St. Gervais.	1 "	30	W. Brunet & Cie...	
"	9	"	3511	J. Bhacone, St. Charles	1 "	35	J. B. Renaud & Cie, Quebec.	
"	9	"	3513	Joseph Laboute, St. Charles.	1 "	35	Turcotte & freres.	
"	9	"	3514	Alph. Nadeau, St Char- les.	1 "	40	Langlois & Paradis.	
"	9	"	3518	Geo. Roy, St. Michel.	1 "	40	S. H. Ewing & Son, Montreal.	
"	9	"	3520	Louis Carriveau, St. Michel.	1 "	35	Turcotte & freres, Quebec.	
"	10	"	3522	Eugene Bolduc, St. Valier.	1 "	40	"	
"	10	"	3524	L. N. Roy, St. Valier.	1 "	40	Langlois & Paradis.	
"	10	"	3525	Achille E. Lanarre, St. Valier.	1 "	30	Canadian Spice Mills, Quebec.	
"	10	"	3526	Theodore Bernard, St. Raphael.	1 "	35	Quebec Preserving Co., Quebec.	
"	10	"	257	Dame Nap. Fournelle, St. Agathe des Monts	1 livre	50	Watt Godon & Co.	
"	10	"	258	Rodrigue Touchette, St. Agathe des Monts.	1 "	40	Laporte & Martin.	
"	10	"	259	Dme. L. W. Brisette, St. Agathe des Monts.	1 "	40	Hudon Hebert & Cie	
"	10	"	260	H. Giroux, St. Agathe des Monts.	1 "	40	S. H. Ewing.	
"	10	"	261	Noe Forget, St. Agathe des Monts.	1 "	40	Hudon & Orsali.	
Jan.	20	"	2737	Ed. Dancans Mont- magny.	1 lb.	40	Whitehead & Turner, Quebec	
"	20	"	2738	Emile Dube, Mont- magny.	1 "	40	J. B. Renaud, Quebec.	
"	21	"	2739	Romeo L. Esperance, Montmagny.	1 "	50	J. V. Bondrias, Ltd., Montreal	
"	27	"	2741	Alp. Letourneau, St. Pierre, Montmagny Co	1 "	40	Turcotte Frere & Cie, Quebec.	
"	28	"	2743	Pierre Morin, Cap. St. Ignace	1 "	40	C. A. Carrier & fils, Ltd., Levis.	
"	30	"	2747	Joseph Fourrier, St. Thomas, Montmagny Co.	1 "	40	N. Rioux & Cie, Quebec.	
Feb.	1	"	56438	Uilz Kirouac, Cacouna.	1 "	45	T. Langlais, Fraserville.	
"	1	"	56439	Pierre Roy	1 "	40	Turcotte & Frere, Quebec.	
"	1	"	56440	J. Erneste Dugas	1 "	40	T. Langlais, Fraserville.	
"	1	"	56441	H. J. Servis & Cie	1 "	40	Turcotte & Frere, Quebec.	
"	3	"	56445	Joseph Thivierge, Isle Verte.	1 "	40	N. Rioux, Que- bec.	

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p. c.			
.....	1.58	Pepper tissues only.....	3507	Genuine.
.....	1.92	".....	3509	"
.....	1.72	" and about 10 per cent wheat starch.	3511	Adulterated.
.....	1.98	Pepper tissues and about 20 to 30 per cent maize starch	3513	"
.....	1.15	Pepper tissues only	3514	Genuine.
.....	2.28	".....	3518	"
.....	1.65	".....	3520	"
.....	1.97	".....	3522	"
.....	1.15	".....	3524	"
.....	1.07	".....	3525	"
.....	1.47	".....	3526	"
.....	2.25	".....	257	"
.....	1.50	".....	258	"
.....	2.26	".....	259	"
.....	2.61	".....	260	"
.....	1.52	".....	261	"
.....	2.26	".....	2737	"
.....	1.41	".....	2738	"
.....	2.93	".....	2739	"
.....	1.20	".....	2741	"
.....	1.04	".....	2742	"
.....	1.48	".....	2743	"
.....	2.73	".....	2744	"
.....	2.96	" and about 40 to 50 per cent wheat starch	2745	Adulterated.
.....	2.85	Pepper tissues only	2746	Genuine.
.....	1.62	".....	2747	"
.....	0.96	".....	2748	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS—

1915.							
Jan. 18	Poivre Blanc..	3940	Joseph Dufresne, Joliette.	1 lb.	24	Herron Le-blanc, Montreal	
" 19	"	3941	Joseph Bordelean, Joliette.	1 "	50		Chevalier et Pouliot, Joliette.
" 20	"	3942	W. M. Perrault, Joliette	1 "	50		Chevalier et Magnan, Joliette.
" 20	"	3943	J. A. Boisvert "	1 "	50		Chevalier et Pouliot, Joliette.
" 20	"	3944	I. E. Dufont "	1 "	40	F. F. Dalley Co., Ltd., Hamilton.	
" 21	"	3945	W. H. Lacasse, L'Assomption.	1 "	35		Chevalier et Pouliot, Joliette.
" 21	"	3946	Edmond Lafortune, L'Assomption.	1 "	36		" "
" 21	"	3947	Theodore Foisy, L'Assomption.	1 "	35	S. H. Ewing, Montreal.	
" 22	"	3948	A. Chausse, L'Assomption.	1 "	40		Gilbert Hamel Cie., 696 Mount Royal.
" 22	"	3949	Arthur Lafortune, L'Assomption.	1 "	40		Hudon & Orsali, Montreal.
" 22	"	3950	Elzear Parent, L'Assomption.	1 "	40		Chevalier et Pouliot, Joliette.
" 20	"	3951	Camille Barrette, Joliette.	1 "	40		J. J. Soumis, Joliette.
" 27	"	3953	J. Bte. Rivest, Joliette.	1 "	40		
" 27	"	3954	I. H. Deblois "	1 "	50		Jos. Dufresne, Joliette.
" 27	"	3923	H. Moreau "	1 "	40		S. H. Ewing, Montreal.

DISTRICT OF EASTERN TOWNSHIPS—

Feb. 9	Poivre Blanc..	1772	Ginn & Elliott, Richmond.	1 lb.	30		Mathewson's Sons, Montreal.
" 9	"	1773	N. A. Kewalk, Warwick	1 "	40	S. H. Ewing & Sons, Montreal.	
" 9	"	1774	J. E. Guilmet, Danville	1 "	40	The F. F. Dally Co., Ltd., Hamilton.	
" 10	"	1775	J. H. A. Lafontaine, Victoriaville.	1 "	40	L. Chaput fils & Cie, Montreal.	
" 11	"	1776	E. A. McKee, Coaticook.	1 "	40	The F. F. Dally Co., Ltd., Hamilton.	
16	"	1777	W. S. Samson & Son, Windsor Mills.	1 "	40	Unknown	
16	"	1778	W. B. Murray, Sherbrooke E.	1 "	40	Pure Gold Mfg. Co., Ltd., Hamilton.	
16	"	1779	Denault Grain & Prov. Co., Ltd., Sherbrooke, E.	1 "	32	Herron Le-blanc, Montreal.	

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Dr. V. P. LAVALLEE, INSPECTOR.

	p. c.			
	2 20	Pepper tissues only.	3940	Genuine.
	1 27	" "	3941	"
	2 08	" "	3942	"
	1 09	" "	3943	"
	1 43	" "	3944	"
	1 13	" "	3945	"
	1 68	" "	3946	"
	2 19	" "	3947	"
	2 06	" " and about 35 to 40 wheat starch.	3948	Adulterated.
	2 40	Pepper tissues only.	3949	Genuine.
	1 10	" "	3950	"
	1 65	" "	3951	"
	2 24	" "	3953	"
	2 28	" "	3954	"
	2 72	" "	3953	"

J. C. ROULEAU, INSPECTOR.

	2 91	Pepper tissues only.	1772	Genuine.
	2 41	" " and foreign stone cells (coconut or olive stones.)	1773	Adulterated.
	1 16	Pepper tissues only.	1774	Genuine.
Guaranteed pure	1 26	" "	1775	"
	1 17	" "	1776	"
	2 24	" "	1777	"
	1 30	" "	1778	"
	2 62	" "	1779	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1915.							
Feb. 17	Poivre Blanc.	1780	Kathan & Hopkins, Rock Island.	3pkgs.	30	Lymans, Ltd., Montreal.	
" 18	" ..	1781	Monty freres, Granby	1 lb.	40	Unknown.....	
" 18	" ..	1782	W. D. Bradford, Granby	1 "	40	Pure Gold Mfg. Co., Ltd., Toronto.	
Mar. 25	" ..	1783	A. E. Chabot, St. Hyacinthe.	1 "	40	Laporte Martin, Montreal.	F. H. Leblanc, St. Hyacinthe.
" 25	" ..	1784	E. A. Gendron, St. Hyacinthe.	1 "	30		E. Lafrance, St. Hyacinthe.
" 25	" ..	1785	Lassonde & freres, St Hyacinthe.	1 "	40	L. Chaput fils & Cie, Montreal.	
" 25	" ..	1786	J. B. St. Pierre, St. Hyacinthe.	1 "	40	J. V. Boudrias, Montreal.	

DISTRICT OF MONTREAL—

Jan. 26	White Pepper	62246	H. Legault, 89 Mul-larky ave., Verdun.	1 lb.	45		Labreque & Pel-lerin, Montreal.
" 26	" ..	62647	A. Forget, 211 Mul-larky ave., Verdun.	1 "	40		Unknown.....
" 26	" ..	62648	J. J. Bowen, 115 Ger-trude st., Verdun.	1 "	30		
" 26	" ..	62649	Nap. Rochon, 108 Ger-trude St., Verdun.	1 "	40		Kearney Bros., Montreal.
" 26	" ..	62650	N. Lalonde, 1 Church Ave., Verdun.	1 "	40		The Nat. Coffee and Spice Co., Montreal.
Feb. 1	" ..	62651	J. Harvey, 82 Claude St., Verdun.	1 "	40		L. Chaput fils et Cie, Montreal.
" 1	" ..	62652	R. W. Hadley, 35 Gor-lon Ave., Verdun.	1 "	40		S. H. Ewing & Sons, Montreal.
" 2	" ..	62653	Dionne & Dionne, 4120 St. Cath. St. West, Westmount.	1 "	50		" "
" 2	" ..	62654	E. J. Quinn, 4201 St. Cath. St. West, Westmount.	3 tins.	39	McLarens, Ltd., Hamilton, Ont.	
" 3	" ..	62655	G. Corbo, 35 Notre Dame, St., Lachine.	1 lb.	40		L. Chaput & fils, Montreal.
Mar. 9	" ..	62656	A. Beaudoin, 132 Delor-mier Ave., Montreal.	1 "	40		Unknown.....
" 9	" ..	62657	I. Pelonsky, 10 Dorches-ter St. West, Mont-real.	1 "	40		J. Edelberg, Montreal.
" 9	" ..	62658	E. Arshnoff, 168 Clarke St., Montreal.	1 "	25		" "
" 9	" ..	62659	I. Goodman, 11 Lagan-chetiere St. West, Montreal.	1 "	35		M. Lavut, Mont-real.
" 11	" ..	62660	Dutilly & frere, 586 Notre Dame St., M i-scunneuve, Montreal.	1 "	40		Herron Leblanc, Montreal.

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p. c.			
.....	1.12	Pepper tissues only.....	1780	Genuine.
.....	1.62	" " "	1781	"
.....	2.88	" " "	1782	"
.....	2.81	" " "	1783	"
.....	1.69	" " "	1784	"
.....	1.19	" " "	1785	"
.....	2.28	" " "	1786	"

D. J. KEARNEY, INSPECTOR.

.....	1.78	Pepper tissues only	62646	Genuine
.....	2.52	" " "	62647	"
.....	1.68	Pepper tissues and about 40 to 50% wheat and maize starches	62648	Adulterated
.....	1.16	Pepper tissues only.....	62649	Genuine.
.....	2.19	" " "	62650	"
.....	1.07	" " "	62651	"
.....	1.55	" " "	62652	"
.....	1.10	" " "	62653	"
.....	1.06	" " "	62654	"
.....	2.34	" " "	62655	"
.....	2.23	" " "	62656	"
.....	2.49	" " "	62657	"
.....	1.64	" " "	62658	"
After purchase Vendor said it was Compound.	2.32	" " " and about 35 to 45% Maize Starch	62659	Adulterated
.....	3.00	Pepper tissues only	62660	Genuine

7 GEORGE V, A. 1917
BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1915.							
Feb.	1	White Pepper.	58211 E. Giroux, St. Johns, P.Q.	1 lb.	30		
"	1	"	58212 E. D. Leblanc, "	1 "	30	J. V. Boudrias, Montreal.	
"	1	"	58213 J. B. Latour, "	1 "	40	" "	
"	1	"	58214 H. Dubois, "	1 "	40	S. H. Ewing & Sons, Montreal.	
"	1	"	58215 A. Alexandre, "	1 "	40	Sinard & Brossard, Montreal.	
"	5	"	58216 R. Lanctot, Valleyfield.	1 "	40	S. H. Ewing & Sons, Montreal.	
"	5	"	5-217 A. Daoust, "	1 "	40	F. F. Dalley Co., Ltd.	
"	5	"	58218 W. J. McPherson, "	1 "	40		
"	5	"	58219 Primeau freres, "	1 "	40	F. F. Dalley Co., Ltd.	
"	16	"	58220 W. Be-tand, Buckingham.	1 "	40	S. H. Ewing & Sons, Montreal.	
"	16	"	58221 William O'Neill, "	1 "	40	F. F. Dalley Co., Ltd.	
"	16	"	58222 Wm. Griffiths, "	3pkgs.	30	White Swan, S. & C. Co., Ltd.	
"	16	"	58223 J. A. D'Aoust, "	1 lb.	35	S. H. Ewing & Sons, Montreal.	
"	23	"	58224 J. E. Billargeon, Farnham.	3pkgs.	30	Gorman Eckhart & Co., London, Ont.	
"	23	"	58225 Ed. Bienveue, "	1 lb.	40	White Swan, S. & C. Ltd.	

DISTRICT OF OTTAWA—

Jan.	12	White Pepper.	63562 P. Lapensee, Cornwall.	1 lb.	40	Unknown	Ford Bros., McGill street, Montreal.
"	12	"	63563 M. M. Mulhern, Cornwall.	1 "	40		Mathewson's Sons, Montreal.
"	12	"	63564 M. L. Smith, Cornwall.	1 "	40	Gorman Eckert, London, Ont.	
"	13	"	63565 Fawthroys Bros., Cornwall.	1 "	50		Mathewson's Sons, Montreal.
"	28	"	63566 John Hughes, Prescott.	1 "	40	Unknown	Unknown
"	28	"	63567 Doyle Bros., Prescott.	1 "	40	Dalton Bros., Toronto.	Gilmour & Co., Brockville.
"	28	"	63568 J. H. Brailey, Prescott.	1 "	40	J. M. Lowes, Ltd., Toronto.	
"	28	"	63569 McDermott & McCarthy, Prescott.	1 "	40	Unknown	Unknown
"	28	"	63570 C. Whitney & Son, Prescott.	1 "	40	Hamilton Coffee and Spice Co., Hamilton.	

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Total Ash.			

J. J. COSTIGAN, INSPECTOR.

	p. c.			
.....	1.09	Pepper tissues only.....	58211	Genuine.
.....	2.36	"	58212	"
.....	1.37	"	58213	"
.....	2.70	"	58214	"
.....	2.18	" and about 20 to 30 Maize and Wheat Starches.	58215	Adulterated.
.....	2.68	Pepper tissues only.....	58216	Genuine.
.....	1.17	"	58217	"
.....	1.39	"	58218	"
.....	1.16	"	58219	"
.....	3.21	"	58220	"
.....	1.28	"	58221	"
.....	1.08	"	58222	"
.....	2.26	"	58223	"
.....	1.94	"	58224	"
.....	2.14	"	58225	"

J. A. RICKEY, INSPECTOR.

.....	2.21	Pepper tissues only	63562	Genuine.
.....	1.66	"	63563	"
.....	0.97	"	63564	"
.....	1.15	"	63565	"
.....	1.02	"	63566	"
.....	3.08	"	63567	"
.....	2.85	"	63568	"
.....	1.08	"	63569	"
.....	1.95	"	63570	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1915.							
Jan. 23	White Pepper	63571	R. A. Scott & Co., Prescott.	1 lb.	40	C. H. Cochrane & Co., Ottawa.	
" 30	"	63572	R. G. Jamieson, Maxville.	1 "	40		H. N. Bate & Sons, Ottawa.
" 30	"	63573	Smillie & McDiarmid, Maxville.	1 "	50	Pure Gold Mfg. Co., Toronto.	
" 30	"	63574	P. Tracey, Maxville.	1 "	45	Unknown.	
Feb. 4	"	63575	D. G. Cowan, 1227 Bank St., Ottawa.	1 "	40	The J. M. Lowes Co., Ltd., Toronto.	
" 4	"	63576	R. H. Beck, 1150 Bank St., Ottawa.	1 "	40	Dalton Bros., Toronto.	

DISTRICT OF KINGSTON—

Feb. 1	White Pepper.	66511	W. E. Hopkinson, Kingston.	1 lb.	40	F. F. Dalley Co., Hamilton.	
" 3	"	66512	W. J. Nesbitt, Kingston	1 "	40	J. M. Lowes Co., Toronto	
" 3	"	66513	J. Culien, Kingston.	1 "	40		Andrew Maclean, Kingston.
" 3	"	66514	C. H. Pickering, Kingston.	1 "	60	Gorman Eckert Co., London.	
" 3	"	66515	Anderson Bros., Kingston.	1 "	40	J. M. Lowes Co., Toronto.	
" 15	"	66516	H. C. Hampton, Belleville.	1 "	40		J. Walmsley Co., Belleville.
" 15	"	66517	A. Kellaway, Belleville.	1 "	40	J. M. Lowes Co., Toronto.	
" 15	"	66518	J. H. P. Young, Belleville.	1 "	40	Pure Gold Mfg. Co., Toronto.	
" 16	"	66519	Thos. McIntosh, Cobourg.	1 "	40	Todhunter Mitchell, Toronto.	
" 16	"	66520	W. P. Platt, Cobourg.	1 "	40	"	
" 16	"	66521	Estate Hugh Crozier, "	1 "	38	Dalton Bros., Toronto	
" 16	"	66522	T. R. Harvey & Son, "	1 "	50	Todhunter Mitchell, Toronto.	
" 16	"	66523	F. H. Brown, Port Hope.	1 "	50	Pure Gold Mfg. Co., Toronto.	
" 16	"	66524	A. H. Jordan, Port Hope.	1 "	50	Gorman Eckert Co., London, Ont.	
" 17	"	66525	W. J. Roulty, Peterboro.	1 "	40	F. F. Dalley Co., Hamilton.	

DISTRICT OF TORONTO—

Feb. 16	White Pepper	64675	Geo. Cowie, Richmond Hill.	1 lb.	40		Unknown.
" 16	"	64676	Towns & Morris, Aurora.	1 "	40		"

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p.c.			
.....	0.87	Pepper tissues only	63571	Genuine.
.....	2.28	" "	63572	"
.....	0.97	" "	63573	"
.....	1.46	" "	63574	"
.....	1.06	" "	63575	"
.....	2.41	" "	63576	"

JAS. HOGAN, INSPECTOR.

.....	1.58	Pepper tissues only	66511	Genuine.
.....	1.81	" "	66512	"
.....	1.35	" "	66513	"
.....	3.48	" "	66514	"
.....	3.57	" "	66515	"
.....	1.91	" "	66516	"
.....	1.84	" "	66517	"
.....	1.34	" "	66518	"
.....	1.30	" "	66519	"
.....	1.14	" "	66520	"
.....	1.12	" "	66521	"
.....	1.41	" "	66522	"
.....	1.15	" "	66523	"
.....	1.15	" "	66524	"
.....	1.40	" "	66525	"

H. J. DAGER, INSPECTOR.

.....	2.17	Pepper tissues only	64673	Genuine.
.....	1.13	" "	64674	"

7 GEORGE V, A. 1917
BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1915.							
Feb. 16	White Pepper.	64677	Hamilton Bros, New-market.	1 lb.	30	.....	Thos. Kinnear Toronto.
" 16	"	64678	G. H. Knowles, New-market.	1 "	40	Todhunter Mitchell & Co. Toronto.	.....
" 17	"	64679	A. Burrows, Sutton....	1 "	40	.....	F. W. Humphrey Toronto.
" 17	"	64680	M. E. Hamilton "	1 "	35	.....	Unknown.....
" 18	"	64681	S. D. Corvelty, Oshawa.	1 "	40	.....	" .....
" 18	"	64682	H. A. Ross, "	1 "	40	Todhunter Mitchell & Co., Toronto.	.....
" 18	"	64683	A. T. Lawler, Whitby..	1 "	40	.....	Unknown.....
" 22	"	64684	H. M. Sealey, 106 Mutual St., Toronto	1 "	40	J. M. Lowes Co. Ltd., Toronto.	.....
" 22	"	64685	C. Grant, 287 Gerrard St. east, Toronto.	1 "	35	Pure Gold Mfg. Co. Ltd., Toronto.	.....
" 24	"	64686	Groves Bros., 483 Church St., Toronto.	1 "	40	Todhunter Mitchell & Co., Toronto.	.....
" 24	"	64687	W. R. McGaw, 242 Arthur St., Toronto.	1 "	40	Pure Gold Mfg. Co. Ltd., Toronto.	.....
" 25	"	64688	J. Hutchinson, & Son Woodbridge.	1 "	40	.....	Unknown.....
" 25	"	64689	F. A. Bagg, Woodbridge	1 "	40	.....	" .....

DISTRICT OF HAMILTON—

Mar. 2	White Pepper.	66854	A. Antie & Son, Galt ..	1 lb.	40	Litster's Pure Food Co., Ltd., Toronto	.....
" 2	"	66855	A. Graeb, Preston	1 "	35	.....	Ebby Blai, Ltd., Toronto.
" 2	"	66856	Mrs. E. Henry, Hespler	1 "	40	.....	Unknown.....
" 2	"	66857	J. F. Kohli, Hespler...	1 "	40	.....	M. Masuret & Co., London.
" 3	"	66858	B. Lango, Waterloo, Ont.	1 "	40	.....	Unknown.....
" 3	"	66859	Geo. Faber, Berlin....	1 "	40	Litster's Pure Food Co., Ltd., Toronto.	.....
" 9	"	66860	Geo. E. Taylor, Paris Station.	1 "	40	White Swans & C. Co., Ltd., Toronto.	.....
" 10	"	66861	F. A. Miller, Burford.	1 "	40	.....	Unknown
" 10	"	66863	R. J. Welsh, Brantford.	1 "	40	.....	Geo. Foster & Sons, Ltd., Brantford.
" 11	"	66864	Thos. Wood, Beausville	1 "	40	MacLarens, Ltd., Hamilton.	.....
" 11	"	66865	W. G. Panter, Beausville.	1 "	40	.....	Unknown
" 12	"	66866	Jas. P. Kerwin, Dundas	1 "	40	.....	Geo. E. Bristol & Co., Ltd., Hamilton.

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examinations.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p.c.			
Labelled pure.....	2 72	Pepper tissues only.	64677	Genuine.
.....	2 67	" "	64678	"
.....	1 28	" "	64679	"
.....	1 45	" "	64680	"
.....	2 67	" and about 60 to 70 maize starch	64681	Adulterated
.....	1 97	" tissues only.....	64682	Genuine
.....	2 16	" "	64683	"
Labelled pure.....	1 50	" "	64684	"
.....	1 25	" "	64685	"
.....	1 04	" "	64686	"
.....	1 26	" "	64687	"
.....	0 99	" "	64688	"
.....	1 25	" "	64689	"

H. J. DAGER, INSPECTOR.

.....	1 18	Pepper tissues only.	66854	Genuine.
Labelled, Lion, Pure	2 34	" "	66855	"
.....	2 17	" "	66856	"
.....	2 15	" "	66857	"
.....	2 58	" "	66858	"
.....	1 52	" "	66859	"
.....	1 13	" "	66860	"
.....	1 39	" "	66861	"
.....	2 82	" "	66862	"
.....	1 04	" "	66864	"
.....	1 93	" "	66865	"
.....	3 71	" "	66866	"

7 GEORGE V, A. 1917

BULLETIN No. 314--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON--

1915							
Mar. 12	White Pepper.	66867	D. Monro, 433 James St., North, Hamilton.	1 lb..	35	Young Windfield, Hamilton.	.....
" 12	" ..	66868	Mrs. E. Moore, 185 Park St., Hamilton.	1 " "	35	" "	.....
" 13	" ..	66901	Wm. Carroll, 94 John St., South, Hamilton.	1 " "	40	The F. F. Dalley Co., Ltd., Hamilton.	.....

DISTRICT OF WINDSOR--

Feb. 16	White Pepper.	54703	Fred. Punney, London.	$\frac{3}{4}$ lb..	30	.....	Scandrett Bros, London.
" 16	" ..	54706	H. Beren, London.	1 " "	40	.....	" "
" 16	" ..	54707	A. R. Bong, London..	1 " "	40	I. X. L. Spice & Coffee Co., London	.....
" 16	" ..	54708	Wyckoff & Gafney, London.	$\frac{3}{4}$ " "	30	.....	E. Adams & Co., London.
" 16	" ..	54710	J. T. May, London ...	1 " "	40	Gorman, Eckert Co., London.	.....
" 16	" ..	54711	R. A. Ross, London....	1 " "	50	" "	.....
" 16	" ..	54713	Alfred Cane, London South.	1 " "	35	I. X. L. Spice & Coffee Co., London	.....
" 17	" ..	54721	D. G. Gibb, St. Mary's.	1 " "	40	Unknown	.....
" 17	" ..	54723	J. P. Rogers & Co., St. Mary's.	1 " "	40	"	.....
" 9	" ..	63989	Moylan & Moylan, St. Thomas.	1 " "	40	Gorman Eckert & Co., London, Ont.	.....
" 9	" ..	63992	D. H. McIntyre, St. Thomas.	1 " "	40	" "	.....
" 9	" ..	63994	R. H. Cook, St. Thomas.	1 " "	46	" "	.....
" 9	" ..	63996	Charles C. Raison, St. Thomas.	1 " "	25	.....	E. Adams Co., London, Ont.

DISTRICT OF MANITOBA--

Jan. 27	White Pepper.	53141	Blue Ribbon, Ltd., Winnipeg.	3 pks.	30	Vendors	.....
" 27	" ..	53142	Campbell Bros. & Wilson, Winnipeg.	3 " "	Nil.	"	.....
" 27	" ..	53143	Gold Standard Mfg. Co., Winnipeg.	3 " "	"	"	.....
" 27	" ..	53144	Todhunter Mitchell Coffee Co., Winnipeg.	1 lb.	"	"	.....
" 27	" ..	53145	The Dyson Co., Winnipeg.	1 " "	"	"	.....
"	" ..	53146	The White Star Mfg. Co., Winnipeg.	3 pks.	"	Vendors	.....

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspectors Report. (Is not an expression of opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p.c.			
.....	1.72	Pepper tissues only.	66867	Genuine.
.....	1.23	" "	66868	"
.....	1.44	" "	66901	"

JNO. TALBOT, INSPECTOR.

.....	2.85	Pepper tissues only	54703	Genuine.
.....	2.94	" " and about 30 to 40 p.c. wheat starch	54706	Adulterated.
"Sweetheart" Brand .	1.03	Pepper tissues only	54707	Genuine.
.....	1.55	" "	54708	"
.....	1.17	" "	54710	"
.....	1.61	" "	54711	"
.....	2.41	" "	55713	"
.....	1.78	" "	54721	"
.....	1.17	" "	54723	"
.....	2.42	" "	63989	"
.....	2.00	" "	63992	"
Labelled pure.	1.76	" "	63994	"
.....	2.72	" "	63996	"

A. C. LARIVIERE, INSPECTOR.

.....	1.14	Pepper tissues only	63141	Genuine.
.....	1.43	" "	63142	"
.....	1.57	" "	63143	"
.....	1.08	" "	63144	"
.....	1.71	" "	63145	"
.....	1.52	" "	63146	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cost.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1915.							
Jan. 28	White Pepper.	53147	The Jobin Marrin Co., Ltd., Winnipeg.	3 pks.	Nil.	.....	Todhunter Mitchell Co., Toronto.
Feb. 1	"	53148	H. Woodley, 470 Burrows Ave., Winnipeg.	3 "	30	The White Star Mfg. Co., Winnipeg.	.....
" 1	"	53149	S. J. Deroche, 470 Burrows Ave., Winnipeg.	1 lb.	40	.....	A. Macdonald & Co., Winnipeg.
" 2	"	53150	Wilton & Conley, 1322 Main St., Winnipeg.	3 pks.	30	Gorman, Eckert & Co., London.	.....
" 2	"	53151	Moffett & Douglas, Selkirk Ave., Winnipeg.	3 "	30	Gold Standard Mfg. Co., Winnipeg.	.....
" 3	"	53152	H. Carter, St. James.	3 "	30	The White Star Mfg. Co., Winnipeg.	.....
" 3	"	53153	E. M. Neelands, St. James.	1 lb.	35	Gorman, Eckert Co., London, Ont.	.....
" 3	"	53154	N. Posner, St. James.	3 pks.	30	The White Star Mfg. Co., Winnipeg.	.....
" 4	"	53155	Brown's Ltd., Portage-la-Prairie.	3 "	40	Eby Blain, Toronto.	.....

DISTRICT OF SASKATCHEWAN -

Jan. 26	White Pepper.	66302	R. Taylor & Co., Indian Head, Sask.	1 lb.	50	.....	Campbell, Wilson & Strathdee, Regina.
" 26	"	66303	Halliday & Carlisle, Indian Head, Sask.	1 "	40	.....	" " "
" 27	"	66304	D. J. Craig, Worseley, Sask.	3 cans	30	Gold Standard Mfg. Co., Winnipeg.	.....
" 27	"	66305	Crozier Bros., Worseley, Sask.	1 lb.	40	.....	Campbell, Wilson & Strathdee, Regina.
" 27	"	66307	W. P. Pocock, Worseley, Sask.	1 "	40	.....	Cameron and Heap, Regina.
" 27	"	66308	Magee & Thompson, Worseley, Sask.	1 "	40	.....	Campbell Bros. & Wilson, Winnipeg.
" 27	"	66309	Clayton Bros. & Co., Grenfell, Sask.	1 "	50	.....	Jobin & Marrin, Winnipeg.
" 27	"	66311	Flemming & Bennett, Grenfell, Sask.	1 "	35	.....	McDonald's Consolidated, Winnipeg.
" 27	"	66313	Greenless & Sons, Grenfell, Sask.	1 "	50	.....	Jobin & Marrin, Winnipeg.
" 27	"	66315	Grenfell Trading Co., Grenfell, Sask.	1 "	50	.....	Cameron and Heap, Regina.
" 27	"	66316	James Smith, Grenfell, Sask.	3 cans	30	White Star Mfg. Co., Winnipeg.	McDonald's Consolidated, Winnipeg.
" 27	"	66318	Whitewood Supply Co., Whitewood, Sask.	1 lb.	40	Blue Ribbon, Ltd., Winnipeg.	.....
" 2	"	66320	J. J. Knowles & Co., Whitewood, Sask.	1 "	40	.....	Codville Co., Ltd., Brandon

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p. c.			
"Challenge" Brand....	2.92	Pepper tissues only	53147	Genuine.
"White Star" Brand...	1.41	" "	53148	"
.....	1.54	" "	53149	"
"Forest City" Brand...	2.20	" "	53150	"
.....	2.83	" "	53151	"
.....	1.32	" "	53152	"
.....	1.25	" "	53153	"
.....	1.43	" "	53154	"
.....	2.79	" "	53155	"

L. H. HALL, INSPECTOR.

.....	1.30	Pepper tissues only	66302	Genuine
.....	1.14	" "	66303	"
.....	0.96	" "	66304	"
.....	1.15	" "	66305	"
.....	1.26	" "	66307	"
.....	1.22	" "	66308	"
.....	1.41	" "	66309	"
.....	1.98	" "	66311	"
.....	2.24	" "	66313	"
.....	3.07	" "	66315	"
.....	1.41	" "	66316	"
.....	1.16	" "	66318	"
.....	1.29	" "	66320	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1915.							
Jan. 27	White Pepper.	66322	The White-wood Trading Co., Whitewood, Sask.	1 lb	35	.....	Codville Co., Ltd., Brandon.
" 27	"	66324	W. J. Mackay, Moosomin, Sask.	1 " "	50	.....	Campbell Bros. & Wilson, Winnipeg.

DISTRICT OF ALBERTA—

Mar. 12	White Pepper.	52085	Urquhart & Co., Ltd., Lacombe, Alta.	3 tins.	10	Gorman, Eckert & Co., London and Winnipeg.	.....
" 12	"	52086	R. G. Gilmour, Lacombe, Alta.	1 lb..	40	Campbell, Wilson & Horne, Calgary.	.....
" 12	"	52087	A. M. Campbell, Lacombe, Sask.	3 tins.	30	Blue Ribbon, Ltd., Winnipeg.	.....
" 12	"	52088	" " "	1 lb..	40	Gorman, Eckert Co. Winnipeg.	.....
" 13	"	52089	A. Reid, Pownoka, Alta.	3 tins.	30	W. A. Jameson Coffee Co., Victoria, B.C.	.....
" 15	"	52090	Lowry, Glamie & Co., Leduc, Alta.	1 lb..	50	Campbell Bros. & Wilson, Winnipeg.	.....
" 16	"	52091	Montgomery Bros., Wetaskiwin, Alta.	1 " "	40	" " "	.....
" 19	"	52092	John Irwin & Co., Calgary.	1 " "	40	Tuxedo Spice Co., Calgary.	.....
" 19	"	52093	Pryce Jones (Canada) Ltd., Calgary.	3 tins.	30	F. F. Dalley Co., Hamilton, Ont.	.....
" 19	"	52094	P. J. Moran, Calgary.	3 tins.	30	Alberta Empire Co., Ltd., Calgary.	.....
" 22	"	52095	Hudsons Bay Co., Calgary.	1 lb..	48	Tuxedo Mfg. Co., Calgary.	.....
" 22	"	52096	" " "	3 tins.	38	E. R. Durke & Co., New York.	.....
" 22	"	52097	G. J. Wood, Calgary.	3 " "	30	Tuxedo Mfg. Co., Calgary.	.....
" 22	"	52098	J. A. Nolan, Calgary.	1 lb..	40	Blue Ribbon Ltd., Winnipeg.	.....
" 22	"	52099	S. G. Freeze, Calgary.	1 " "	40	F. F. Dalley Co., Hamilton.	.....

DISTRICT OF ROCKY MOUNTAINS—

Feb.	1	White Pepper.	61744	J. A. Irving & Co., Nelson, B.C.	1 lb..	40	Empress Mfg. Co., Vancouver, B.C.	.....
"	1	"	61745	Bell Trading Co., Nelson, B.C.	1 " "	40	Win. Baird & Co., Vancouver, B.C.	.....
"	6	"	61756	J. McIntyre & Son, Revelstoke, B.C.	3 " "	30	Kelly Douglas & Co., Vancouver, B.C.	.....
"	6	"	61757	C. B. Hume & Co., Revelstoke B.C.	1 " "	50	Empress Mfg. Co., Vancouver, B.C.	.....

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p. c.			
.....	1.40	Pepper tissues only.....	66322	Genuine.
.....	1.10	" "	66324	"

A. W. R. MARKLEY, INSPECTOR.

"Forest City" Brand....	2.27	Pepper tissues only.....	52085	Genuine.
.....	1.11	" "	52086	"
.....	1.39	" "	52087	"
.....	1.05	" "	52088	"
"Victoria" Brand.....	2.42	" "	52089	"
.....	1.22	" "	52090	"
.....	1.21	" "	52091	"
.....	1.13	" "	52092	"
.....	1.03	" "	52093	"
.....	1.11	" "	52094	"
.....	1.23	" "	52095	"
Gauntlet Brand.....	1.53	" "	52096	"
.....	1.33	" "	52097	"
.....	1.40	" "	52098	"
.....	1.20	" "	52099	"

THOS. PARKER, INSPECTOR.

.....	1.11	Pepper tissues only.....	61741	Genuine.
.....	1.05	" "	61742	"
.....	0.95	" "	61743	"
.....	1.07	" "	61744	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1915.							
Feb. 6	White Pepper.	61758	G. W. Bell, Revelstoke, B.C.	1 lb..	40	F. F. Dalley Co., Hamilton.	.....
" 10	"	61762	The S. A. F. E. Ltd, Salmon Arm, B.C.	1 " ..	40	.....	Leesor Dickie & Gross, Vancouver, B.C.
" 10	"	61763	J. M. Toombs. Salmon Arm, B.C.	1 " ..	40	Kelly Douglas & Co. Vancouver, B.C.	.....
" 15	"	61769	Munn Bros, Kamloops, B.C.	1 " ..	35	" "	.....
" 15	"	61770	Wilson Grocery Co., Kamloops, B.C.	1 " ..	40	Empress Mfg. Co., Vancouver, B.C.	.....
Mar. 16	"	61786	Hunter Bros., Rossland, B.C.	3 tins.	40	Kelly Douglas, & Co., Vancouver, B.C.	.....
" 16	"	61787	T. P. Rogers, Rossland, B.C.	1 lb..	45	" " "	.....
" 16	"	61788	Agnew & Co., Rossland, B.C.	1 " ..	40	" " "	.....
" 16	"	61791	Union Co-operative Association, Rossland, B.C.	3 tins	40	The F. F. Dalley Co., Hamilton.	.....

DISTRICT OF VANCOUVER—

Jan. 21	White Pepper.	55153	F. Wright, 645 Seymour St., Vancouver, B.C.	1 lb.	45	Kelly, Douglas & Co., Ltd., Vanc., B.C.	.....
" 21	"	55154	City Cash Grocery, 712 Davie St., Vancouver, B.C.	1 " ..	35	Empress Mfg. Co., Vanc., B.C.	.....
" 21	"	55155	Burrard Grocery, Davie and Burrard Sts., Vancouver, B.C.	1 " ..	40	Wm. Braid & Co., Vanc., B.C.	.....
" 21	"	55156	M. T. Greene, Denman and Nelson Sts., Vancouver, B.C.	1 " ..	40	" " "	.....
" 21	"	55157	H. A. Young, 1701 Robson St., Vancouver, B.C.	3 tins.	30	W. H. Malkin Co., Ltd., Vanc., B.C.	.....
" 26	"	55158	James Harkness, 676 Keefer St., Vancouver, B.C.	1 lb..	40	Empress Mfg. Co., Vanc., B.C.	.....
" 27	"	55159	Grant & Winton, 1900 Powell Ave., Vancouver, B.C.	1 " ..	40	Kelly, Douglas & Co., Ltd., Vanc., B.C.	.....
" 28	"	55160	David Spencer, Ltd., Vancouver, B.C.	1 " ..	18	Empress Mfg. Co., Vanc., B.C.	.....
" 28	"	55161	Henderson's Bay Co., Vancouver, B.C.	1 " ..	40	" " "	.....
Feb. 1	"	55162	Powell's Market, 58 Hastings St., Vancouver, B.C.	1 " ..	25	Kelly, Douglas & Co., Ltd., Vanc., B.C.	.....
" 3	"	55163	E. L. Berry, Ladner, B.C.	1 " ..	35	" " "	.....
" 4	"	55164	Rubinowitz Dept. Stor., Steveston, B.C.	1 " ..	40	" " "	.....

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p. c.			
.....	1.09	Pepper tissues only.....	61758	Genuine.
.....	1.24	" "	61762	"
Nabob	0.98	" "	61763	"
"	0.94	" "	61769	"
.....	1.01	" "	61770	"
Nabob,	0.82	" "	61786	"
"	0.92	" "	61787	"
Columbia,	1.32	" "	61788	"
.....	1.24	" "	61791	"

E. J. MORGAN, INSPECTOR.

"Nabob" Brand.....	1.00	Pepper tissues only	55153	Genuine.
.....	0.87	" "	55154	"
.....	1.09	" "	55155	"
.....	1.08	" "	55156	"
"Malkin's Best" Brand.	1.08	" "	55157	"
.....	1.09	" "	55158	"
"Nabob" Brand	1.32	" "	55159	"
.....	1.11	" "	55160	"
.....	1.01	" "	55161	"
After purchase, vendor stated sample sold was compound pepper	1.26	" "	55162	"
.....	0.80	" "	55163	"
"Nabob" Brand	0.97	" "	55164	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1915.							
Feb.	4	White Pepper.	55165 Steveston Supply Co., Ltd., Steveston, B.C.	1 lb..	40	W. H. Malkin Co., Ltd., Vanc., B.C.	.....
"	8	"	55166 W. H. Walsh, Eburne, B.C.	1 " ..	40	Kelly, Douglas & Co., Ltd., Vanc., B.C.	.....
"	10	"	55167 Ashwell's Dept. Store, Chilliwack, B.C.	1 " ..	40	Empress Mfg. Co., Vanc., B.C.	.....

DISTRICT OF VICTORIA—

Feb.	9	White Pepper.	62046 Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	1 lb..	50	Pioneer Coffee and Spice Mills, Victoria, B.C.	.....
"	9	"	62043 The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3 tins.	39	Empress Mfg. Co., Vanc., B.C.	.....
"	9	"	62044 " " " "	1 lb.	50	" " "	.....
"	10	"	62046 F. E. Plummer, 1118 Quadra St., Victoria, B.C.	1 " ..	45	W. A. Jameson Coffee Co., Victoria, B.C.	.....
"	10	"	62048 Erskine & Co., 861 Johnson St., Victoria, B.C.	1 " ..	40	Pioneer Coffee and Spice Mills, Victoria, B.C.	.....
"	10	"	62049 Henry W. Driver, 856 Yates St., Victoria, B.C.	3 pkgs	30	Wm. Braid & Co., Vanc., B.C.	.....
"	11	"	62051 Fairfield Grocery, Cook St., Victoria, B.C.	250 3 " ..	30	E. R. Durkee & Co., New York.	.....
"	11	"	62053 Linden Grocery Co., Linden & May Sts., Victoria, B. C.	1 lb..	50	Empress Mfg. Co., Vancouver, B. C.	.....
"	11	"	62056 Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B. C.	1 " ..	35	.....	R. G. Bedlington & Co., Vancouver, B. C.
"	11	"	62057 " " "	3pkgs.	20	.....	" " "
"	11	"	62058 W. A. Jameson Coffee Co., 754 Broughton St., Victoria B. C.	1 lb..	35	G. S. Dunn & Co., Hamilton.	.....
"	12	"	62059 Dixie H. Ross & Co., 1317 Govt. St., Victoria, B. C.	1 " ..	50	.....	Wm. Braid & Co., Vancouver, B. C.
"	12	"	62063 Copas & Young, 631 Fort St., Victoria, B.C.	1 " ..	30	Wm. Braid & Co., Vancouver, B. C.	.....
"	12	"	62066 H. O. Kirkham & Co., 741 Fort St., Victoria, B.C.	1 " ..	40	.....	Kelly Douglas & Co., Victoria, B. C.
"	22	"	62069 Acton Bros., 1317 Douglas St., Victoria, B.C.	1 " ..	40	Pioneer Coffee & Spice Mills, Victoria, B. C.	.....

SESSIONAL PAPER No. 14

WHITE PEPPER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.			

Concluded.

	p. c.			
"Malkin's Best" Brand.	1.07	Pepper tissues only.....	55165	Genuine.
"Nabob" Brand.....	1.00	" "	55166	"
"Empress" Brand.....	1.00	" "	55167	"

D. O'SULLIVAN, INSPECTOR.

.....	1.12	Pepper tissues only.....	62040	Genuine.
"Empress" Brand.....	0.93	" "	62043	"
.....	1.02	" "	62044	"
.....	1.91	" "	62045	"
.....	1.30	" "	62048	"
"Braid's Best"	1.08	" "	62049	"
"Dunkee's"	1.31	" "	62051	"
.....	1.02	" "	62053	"
.....	1.13	" "	62056	"
"Empire" Brand.....	1.14	" "	62057	"
.....	1.52	" "	62058	"
.....	1.21	" "	62059	"
.....	1.04	" "	62062	"
.....	0.88	" "	62066	"
.....	1.17	" "	62069	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1914.							
Oct.	2	Pure Black Pepper.	61655	Cranbrook Trading Co., Ltd., Cranbrook, B.C.	$\frac{3}{4}$ lb ..	30	Wilson Bros., Victoria, B.C.
"	2	Pure White Pepper.	61656	" " "	3 tins.	30	" " "
"	2	" " "	61657	" " "	$\frac{3}{4}$ lb ..	30	Georgeson & Co, Calgary.
"	2	Pure Black Pepper.	61658	" " "	3 tins.	30	" " "
"	2	" " "	61659	Frank Provenzano, ..	$\frac{3}{4}$ lb ..	35	W. A. Jameson, Coffee Co., Victoria, B.C.
"	2	Pure White Pepper.	61660	" " "	3 tins.	40	" " "
"	2	" " "	61661	Ira R. Manning, Cranbrook, B.C.	3 " "	40	The F. F. Dalley Co., Victoria, B.C.
"	2	Pure Black Pepper.	61662	" " "	3 " "	40	" " "
"	2	" " "	61663	Ward & Harris, Cranbrook, B.C.	3 " "	40	" " "
"	2	Pure White Pepper.	61664	" " "	3 " "	40	" " "
"	2	" " "	61665	J. Manning, Cranbrook, B.C.	3 " "	40	The W. H. Malkin Co., Vancouver, B.C.
"	13	Pure Black Pepper.	61669	Trites Wood Co., Fernie, B.C.	3pk. s.	30	W. A. Jameson, Coffee Co., Victoria, B.C.
"	13	Pure White Pepper.	61670	" " "	3 " "	40	Gold Standard Mfg. Co., Winnipeg.
"	13	" " "	61671	Crow's Nest Trading Co., Fernie, B.C.	3 " "	40	White Star Mfg. Co., Winnipeg.
"	13	Pure Black Pepper.	61672	" " "	3 " "	30	" " "
"	13	" " "	61673	P. Carosella, Fernie, B.C.	3 " "	30	Wilson Bros., Victoria, B.C.
"	13	" " "	61674	Fernie Co operating Society, Fernie, B.C.	3 " "	30	Wm. Braid & Co., Vancouver, B.C.
"	13	Pure White Pepper.	61675	" " "	3 " "	30	" " "
"	26	Black Pepper.	61689	Joy Bros, Nelson, B.C.	3 bots.	30	G. F. Sutton Sons & Co., London, Eng.
"	26	White Pepper.	61690	" " "	3 tins.	40	Empress Mfg. Co., Vancouver, B.C.
"	26	" " "	61691	Star Grocery, Nelson, B.C.	3 " "	40	Kelly Douglas & Co., Vancouver, B.C.
"	26	Black Pepper..	61692	" " "	3 " "	40	" " "
"	26	" " "	61693	M. Scully, Nelson, B.C.	3 " "	30	Wm. Braid & Co., Vancouver, B.C.
"	26	Pure Black Pepper.	61694	Bell Trading Co., Nelson, B.C.	3 " "	40	" " "
"	26	Pure White Pepper.	61695	" " "	3 " "	40	" " "
"	26	" " "	61696	" " "	$\frac{3}{4}$ lb.	30	" " "

SESSIONAL PAPER No. 14

GROUND PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ash.				
	Total.	Insoluble in HCl. (sand).			

THOS. PARKER, INSPECTOR.

	p. c.	p. c.			
.....	6.40	.....	Pepper tissues only	61655	Genuine.
.....	1.04	.....	" " . . . . .	61656	"
.....	1.13	.....	" " . . . . .	61657	"
.....	6.24	.....	" " . . . . .	61658	"
.....	4.21	.....	" " . . . . .	61659	"
.....	1.71	.....	" " . . . . .	61660	"
.....	1.09	.....	" " . . . . .	61661	"
.....	5.75	.....	" " . . . . .	61662	"
.....	8.62	3.87	" "	61663	"
.....	1.08	.....	" " . . . . .	61664	"
.....	1.03	.....	" " . . . . .	61665	"
.....	6.38	.....	" " . . . . .	61669	"
.....	1.11	.....	" " . . . . .	61670	"
.....	1.27	.....	" " . . . . .	61671	"
.....	6.04	.....	" " . . . . .	61672	"
.....	5.80	.....	" " . . . . .	61673	"
.....	5.56	.....	" " . . . . .	61674	"
.....	1.64	.....	" " . . . . .	61675	"
.....	5.20	.....	" " . . . . .	61680	"
.....	0.96	.....	" " . . . . .	61680	"
.....	0.93	.....	" " . . . . .	61681	"
.....	4.89	.....	" " . . . . .	61682	"
.....	7.20	2.50	" "	61683	"
.....	5.65	.....	" " . . . . .	61684	"
.....	1.09	.....	" " . . . . .	61685	"
.....	1.31	.....	" " . . . . .	61686	"

7 GEORGE V, A. 1947

BULLETIN NO. 314—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1914.							
Oct. 26	Pure Black Pepper	61697	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ lb.	30	Wm. Braid & Co., Vancouver, B.C.	.....
" 26	"	61698	J. A. Irving & Co., Nelson, B.C.	3 Tins	40	Empress Mfg. Co., Vancouver, B.C.	.....
" 26	Pure White Pepper	61699	" " "	3 "	40	"	.....

DISTRICT OF VANCOUVER—

Sept. 28	Black Pepper	55067	Larseurs Grocery, 274 Pender St. east, Vancouver, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Ltd., Vancouver, B.C.	.....
" 28	"	55068	Filion Ltd., 204 Cariall St. Vancouver, B.C.	$\frac{3}{4}$ "	25	Empress Mfg. Co., Vancouver, B.C.	.....
" 29	"	55069	J. Lowenthal, 2243 Main St. Vancouver, B.C.	$\frac{3}{4}$ "	30	Unknown.....	.....
" 29	"	55070	Efford Bros., 244 Broadway E. Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.	.....
" 29	"	55071	McCulloch Bros., 422 Hasting St. E. Vancouver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas & Co. Ltd., Vancouver, B.C.	.....
" 29	"	55072	Kilborn & Munger, 2505 Main St. Vancouver, B.C.	$\frac{3}{4}$ "	25	"	.....
" 30	"	55073	Gruchy & Carlaw, 5th Ave. & Granville St. Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.	.....
" 30	"	55074	S. Pritchard, 950 Robson St. Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver, B.C.	.....
Oct. 5	"	55075	The Main Grocery Store, 1602 Commercial Drive Vancouver, B.C.	$\frac{3}{4}$ "	30	The W. H. Malkins Co., Ltd., Vancouver, B.C.	.....
" 7	"	55076	Larsen & Anne, 601 Front St. New Westminster, B.C.	$\frac{3}{4}$ "	30	Unknown.....	.....
Sept. 30	White Pepper	55077	Mills & McAdair, 2039 4th Ave. W. Vancouver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas & Co., Ltd., Vancouver, B.C.	.....
" 30	"	55078	A. C. Bartig, 2441 Granville St. Vancouver, B.C.	$\frac{3}{4}$ "	30	"	.....
" 30	"	55079	Armour Macfarlane, 8th Ave. & Granville St. Vancouver, B.C.	$\frac{3}{4}$ "	30	"	.....
" 30	"	55080	Fairview Grocery, 2242 Granville St. Vancouver, B.C.	$\frac{3}{4}$ "	30	"	.....
" 30	"	55081	Gruchy & Carlaw, 5th Ave. & Granville St. Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.	.....

SESSIONAL PAPER No. 14

GROUND PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Ash				
	Total	Insoluble in Hcl. (Sand.)			

Concluded.

	p. c.	p. c.			
.....	6.44	.....	Pepper tissues only.....	61697	Genuine.
.....	4.52	.....	" " .....	61698	"
.....	0.94	.....	" " .....	61699	"

E. J. MORGAN, INSPECTOR.

"Nabob" Brand.....	3.89	.....	Pepper tissues only	55067	Genuine.
Empress "	3.60	.....	" " .....	55068	"
Old Stock.....	5.58	.....	" " .....	55069	"
Empress Brand	4.55	.....	" " .....	55070	"
"Nabob" "	4.72	.....	" " .....	55071	"
"	3.87	.....	" " .....	55072	"
Empress Brand.....	3.81	.....	" " .....	55073	"
.....	6.49	.....	" " .....	55074	"
Victoria Cross Brand.....	5.64	.....	" " .....	55075	"
.....	5.59	.....	" " .....	55076	"
"Nabob" Brand	0.82	.....	" " .....	55077	"
"	0.85	.....	" " .....	55078	"
"	1.06	.....	" " .....	55079	"
"	0.81	.....	" " .....	55080	"
Empress Brand.....	0.85	.....	" " .....	55081	"

7 GEORGE V, A. 1917

BULLETIN No. 314—

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1914.							
Sept. 30	White Pepper.	55082	W. A. Ferguson, 1028 Robson St. Vancouver, B.C.	$\frac{3}{4}$ lb.	40	Wm. Braid & Co., Vancouver, B.C.	
" 30	"	55083	T. F. McDowell, 938 Granville St. Vancouver, B.C.	$\frac{3}{4}$ "	30	"	
Oct. 5	"	55084	The Main Grocery Store, 1102 Commercial Drive Vancouver, B.C.	$\frac{1}{2}$ "	30	Kelly Douglas & Co., Ltd., Vancouver, B.C.	
" 5	"	55085	Bird's Grocery, 1304 Commercial Drive, Vancouver, B.C.	$\frac{1}{2}$ "	20	The W. H. Malkin Co., Ltd., Vancouver, B.C.	
" 7	"	55086	Annandale Supply Co., 641 Columbia St., New Westminster, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Ltd., Vancouver, B.C.	

DISTRICT OF VICTORIA—

Sept. 22	White Pepper.	61962	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	$\frac{3}{4}$ lb.	20		G. S. Dunn & Co., Hamilton, Ont.
" 22	"	61963	" " "	$\frac{3}{4}$ "	25		" "
" 22	Black	61964	" " "	$\frac{3}{4}$ "	20		" "
" 22	"	61965	" " "	$\frac{3}{4}$ "	15		" "
" 22	White	61966	The Windsor Grocery Co., 817 Government St., Victoria, B.C.	$\frac{3}{4}$ "	35	Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 22	Black	61967	" " "	$\frac{3}{4}$ "	35	"	
" 22	White	61971	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	$\frac{3}{4}$ "	30	Vendors	
" 22	"	61972	" " "	$\frac{3}{4}$ "	25	"	
" 22	Black	61973	" " "	$\frac{3}{4}$ "	25	"	
" 22	"	61974	" " "	$\frac{3}{4}$ "	20	"	
" 23	"	61977	E. B. Jones, 1802 Cook St., Victoria, B.C.	$\frac{3}{4}$ "	30		W. A. Jameson Coffee Co., Victoria, B.C.
" 23	White	61978	" " "	$\frac{3}{4}$ "	30		" "
" 24	Black	61981	The West End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	$\frac{3}{4}$ "	25		Pioneer Coffee & Spice Mills, Victoria, B.C.
"	White	61982	" " "	$\frac{3}{4}$ "	25		" "

SESSIONAL PAPER No. 14

GROUND PEPPER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ash.				
	Total.	Insoluble in Hcl. (Sand.)			

Concluded.

	p. c.	p. c.			
.....	1.00	..	Pepper tissues only	55082	Genuine.
.....	0.95	..	" "	55083	"
Columbia Brand.....	1.00	..	" "	55084	"
Malkin's Best.....	1.06	..	" "	55085	"
Columbia Brand.....	0.88	..	" and wheat starch.	55086	Contains foreign matter. Adulterated.

D. O'SULLIVAN, INSPECTOR.

.....	1.88	..	Pepper tissues only	61962	Genuine.
.....	1.79	..	" "	61963	"
.....	3.89	..	" "	61964	"
.....	8.15	2.67	" "	61965	Ash high. Sand and dirt.
.....	1.17	..	" "	61966	Genuine.
.....	7.25	2.75	" "	61967	Ash high. Sand and dirt.
Star Brand.....	0.88	..	" "	61971	Genuine.
.....	1.17	..	" "	61972	"
Star Brand	7.28	3.13	" "	61973	Ash high. Sand and dirt.
.....	6.89	2.02	" "	61974	Genuine.
.....	5.34	..	" "	61977	"
.....	1.29	..	" "	61978	"
.....	5.09	..	" "	61981	"
.....	0.87	..	" "	61982	"

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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1914.							
Sept. 25	White Pepper.	61984	Acton Bros., Victoria, B.C.	3 tins.	30	Empress Mfg. Co., Ltd., Vancouver, B.C.	.....
" 25	Black "	61985	" " "	3 "	30	" "	.....
Oct. 3	White "	61986	Dixi H. Ross & Co., 1317 Government St., Victoria, B.C.	$\frac{3}{4}$ lb.	30	Wm. Braid, Vancouver, B.C.	.....
" 3	Black "	61987	" " "	$\frac{3}{4}$ "	30	" "	.....
" 3	White "	61990	Copas & Young, 631 Fort St., Victoria, B.C.	3 tins.	30	Wm. Braid & Co., Vancouver, B.C.
" 3	Black "	61991	" " "	3 "	30	" "

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GROUND PEPPER

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.		Microscopical Examination	No. of Sample.	Remarks and Opinions of the Chief Analyst.
	Ash.				
	Total.	Insoluble in Hcl. (sand.)			

Concluded.

	p. c.	p. c.			
Empress Brand.	0.79	.. ..	Pepper tissues only.....	61984	Genuine.
"	5.41	.. ..	" .....	61985	"
"	1.01	.. ..	" .....	61986	"
"	4.74	.. ..	" .....	61987	"
"	0.99	.. ..	" .....	61990	"
Anti-Combine	5.69	.. ..	" .....	61991	"

APPENDIX F.

BULLETIN No. 315—TINCTURE OF OPIUM (LAUDANUM).

Ottawa, August 4, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon one hundred and twenty-seven (127) samples purchased by our inspectors as Tincture of Opium, generally known as Laudanum. These samples were procured throughout the different inspectoral districts of Canada in October, November and December of last year.

Tincture of Opium is one of the most important and widely used drugs of the pharmacopœia; and, containing as it does, a highly active ingredient (morphine) it follows that the greatest care should be had in its preparation and dispensing. It has been made the subject of inspection upon two previous occasions, by this Department. In 1899 (See Bulletin No. 60) fifteen (15) samples were examined, and of this number, five (5) were found to be below standard pharmacopœal requirements. Only one of these was so far deficient as to render it notably adulterated. In 1908 (see bulletin No. 168), thirty-one (31) samples were examined. Of this number sixteen (16) samples were found to be within standard limits; five (5) were above and ten (10) below pharmacopœal requirements. The discrepancies were, however, in most cases, not such as to make the article dangerous in use, although, in a drug of this kind, any variation beyond the limits fixed by authority of the pharmacopœia, should be regarded as serious. It must be apparent that, when the alkaloidal strength is too great, the patient is endangered, while, when too weak, the physician is unable to secure the results desired.

In the present inspection ninety-six (96) samples are found to meet pharmacopœal demands, and are passed as genuine.

It is to be noted here that the British Pharmacopœia requires that morphine should be present in Tincture of Opium to the amount of 0.75 of one per cent, a variation between the limits of 0.70 and 0.80 per cent, being allowed. This has reference to the Edition of 1898, which is the only edition recognized by the Adulteration Act. (Section 7a).

Our pharmacopœia, like those of other countries, is subjected to periodical revision, and as a matter of fact, the British Pharmacopœia was revised last year (13th July, 1914). The revised (1914) Edition is now legal authority in the United Kingdom, and I note that the Ontario College of Pharmacy has issued a circular to druggists, endorsing its recognition for Canada. Such action can, of course, carry no legal force, so long as the Adulteration Act remains unchanged. It is, perhaps, regrettable that our Act makes special mention of any particular edition of the British Pharmacopœia, since it is in the nature of things, that each later edition should supplant previous editions. This matter must secure attention by amendment of the Act at an early date.

Tincture of Opium is one of several drugs whose strength is altered in the revised edition of the Pharmacopœia; the alkaloidal strength being made one per cent, in terms of anhydrous morphine, instead of 0.75 per cent, as in the edition of 1898.

Eight samples of the present collection meet the requirements of this new standard for the article. It may be that the manufacturer had intention to furnish a tincture of this strength. If so, the fact should be made known upon the label; and it is evident that,

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for some time to come, this particular tincture should be so labelled as to show whether it is intended to meet the standard of the pharmacopœia of 1898 or that of 1914.

In a strictly legal interpretation, these samples are adulterated, since the edition of 1898 is the only legal standard for Canada. It is however sufficiently evident that they meet the intention of the Act and they are treated accordingly. Twenty-three (23) samples must be regarded as illegal, nineteen (19) of these being too low in morphine content, and four (4) being too high. Among these the following call for special mention:—

No. 60722	contains	0.19	p.c.	morphine.
" 64620	"	0.44	"	"
" 48999	"	0.47	"	"
" 60143	"	1.25	"	"
" 63014	"	1.28	"	"
" 63546	"	1.26	"	"
" 61997	"	1.48	"	"

The first three samples contain very notable deficiency, and the last four samples a notable excess of morphine. It will be observed that, except in cases where the vendor is the manufacturer, the name of the manufacturer is not published. In most instances the vendor gave the name of a manufacturer, but careful enquiry proves that, in a majority of these cases, the manufacturer had furnished an opium concentrate, of assayed strength, from which the retail vendor prepared his tincture. I have caused several of these concentrates to be examined, and in every case have found them to be as represented by the manufacturer. They are usually from five to seven times as strong as the tincture, and directions are furnished for dilution so as to prepare the pharmacopœial tincture. This dilution being done by the retailer, it would evidently be improper to hold the manufacturer of the concentrate responsible for the character of the tincture as sold. The concentrate referred to is not strictly a pharmacopœial preparation, but when it is correctly assayed and labelled, it is a very desirable and convenient material for the preparation of a tincture. Responsibility for the quality of the tincture must rest with the vendor, and if through evaporation of the solvent or inaccuracy in measurement, he sells a tincture either too weak or too strong in morphine, the blame cannot be shifted to the manufacturer of a concentrate.

Of course, it follows that occasional inspection of the concentrates themselves must be made, not only in the interest of the public, but as a protection to the retail druggist.

I beg to recommend publication of this report as bulletin No. 315.

I have the honor to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

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Dec 8	30624	B. J. Sharp, Sussex	6	90	1 03	53624	Above B. P. strength. Meets requirements of revised B. P.
" 8	53625	Leger Drug Co., Ltd., Moncton.	6	1 20	Vendors	.....	0 72	53625	Meets B. P. requirements.

DISTRICT OF PRINCE EDWARD ISLAND—WM. WEEKS, INSPECTOR.

Oct. 26	60141	E. A. Foster, Charlotte Town	6 oz.	80	.....	.....	0 73	60141	Meets B. P. requirements.
" 27	60142	J. Hanson & Johnson, Charlottetown	6	90	.....	.....	0 77	60142	" "
" 28	60143	Geo. E. Hughes, Charlottetown	6	90	.....	.....	1 25	60143	Much above B. P. strength.
" 28	60144	The McKinnon Drug Co., Charlottetown.	6	90	.....	.....	0 83	60144	Meets B. P. requirements.

DISTRICT OF QUEBEC CITY—F. X. BELAND, INSPECTOR.

Nov. 10	60719	J. A. Maxime, 308 rue St. Valer, Quebec	6 oz.	60	.....	.....	0 76	60719	Meets B. P. requirements.
" 10	60720	J. B. Giroux, 387 rue St. Joseph, Quebec	6	75	.....	.....	0 69	60720	" "
" 10	60721	W. Desautels & Co., 138-6 rue St. Joseph, Quebec	6	1 50	Vendor	.....	0 69	60721	" "
" 11	60722	A. Fournier, 416 rue St. Joseph, Quebec	6	70	Unknown	.....	0 19	60722	Much below B. P. requirements.
" 11	60723	A. E. Fournier, 279 rue St. Joseph, Quebec	6	1 50	Vendor	.....	0 74	60723	Meets B. P. requirements.
" 11	60724	A. L. Fournier, 208 rue St. Joseph, Quebec	6	1 25	.....	.....	0 94	60724	Above B. P. strength for B. P. of 1898. Correct for revised edition.
" 12	60725	E. Dube, 42 rue St. Joseph, Quebec	6	70	.....	.....	0 73	60725	Meets B. P. requirements.
" 12	60726	Henry Williams, 411 rue St. Joseph, Quebec	6	60	.....	.....	0 81	60726	" "
" 12	60727	W. J. Higgins, 44 rue St. Joseph, Quebec	6	1 50	.....	.....	0 75	60727	" "
" 12	60728	A. L. Martel, 35 rue St. Joseph, Quebec	6	70	.....	.....	0 75	60728	" "

BULLETIN No. 315—TINCTURE OF OPIUM (LAUDANUM).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Result of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst. (References are to the 1898 edition of the British acropia).
				Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF QUEBEC PROVINCE—N. CADIEUX, T. GENDREAU, INSPECTORS.

1914.											
Nov. 2	Tincture of opium.	214	Omer St. Amour, Ste. Agathe des Monts.	3 oz.	60	Vendor			0.65	214	Nearly meets B. P. requirements, but somewhat too weak.
" 11	"	216	Eug. Fournier, Ste. Jerome.	6 "	1 00				0.70	216	Meets B. P. requirements.
Dec. 26	"	243	H. Deschambault, Ste. Therese.	6 "	1 00				0.68	243	" "
Nov. 25	"	2735	Dr. Jos. Gagnon, Mont. maguy.	6 "	1 20				0.76	2735	" "

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLÉE, INSPECTOR.

Oct. 29	Tincture of opium.	2623	L. P. Normand, Three Rivers.	6 oz.	1 20	Vendor			0.85	2623	Meets B. P. requirements.
" 29	"	2624	L. A. Peltier, Three Rivers.	6 "	2 40				0.81	2624	" "
" 29	"	2639	R. W. Williams, Three Rivers.	6 "	75				0.98	2639	Above B.P. strength for B.P. of 1898. Correct for revised edition.
Nov. 4	"	3307	A. L. Boucher, Joliette.	6 "	1 13	Vendor			0.78	3307	Meets B. P. requirements.
" 4	"	3308	L. C. Rivest, Joliette.	6 "	90	"			0.81	3308	" "

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DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

No.	Time of examination.	62550	62551	62552	62553	62554	62555	62556	62557	62558	62559
23	23	Mrs. Friedman, 1068 St. 6 Lawrence Boul., Montreal.	Lancet & Brault, 820 St 6 Lawrence Boul., Montreal.	Alfred F. Larose, 2 Sher. 6 Jacobus St. E., Montreal	Wendell's Pharmacy, 438 6 St. Lawrence Boul., Montreal.	W. Lessard, 1400 Wel. 5 Ington st., Verdun.	Dr. V. Rheume, 183 6 Church ave., Verdun.	Dr. S. Ste. Marie, 447 6 Church ave., Verdun.	Bossillon & Hirlour, 258 6 St. Louis St., Montreal	R. W. Bryson, Car. Fee 6 and St. Catherine St., Montreal.	American Drug Store, 6 137 St. Catherine St., Montreal.
23	23	0.79	0.65	0.72	0.71	0.75	0.79	0.80	0.71	0.77	0.74
23	23	Meets B. P. requirements.	Nearly meets B. P. requirements, but somewhat too weak	Meets B. P. requirements.	"	"	"	"	"	"	"

DISTRICT OF EASTERN TOWNSHIPS AND VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

[illegible]

BULLETIN No. 315—TINCTURE OF OPIUM (LAUDANUM).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Result of Analysis. — Anhydrous Morphine present in 100 c.c.	No. of Sample.	Remarks and Opinion of the Chief Analyst. (References are to the 18 8 Edition of the British Pharmacopœia.)
				Quantity.	Cents.					

DISTRICT OF EASTERN TOWNSHIPS AND VALLEYFIELD—*Concluded.*

1914.										
Nov. 20	Tincture of Opium.	62834	H. M. Davies, St. Lambert.	6 oz.	1 00	.....	.....	0.72	62834	Meets B. P. requirements.
Dec. 5	"	62835	James Fortune, Huntingdon.	6 "	90	.....	.....	0.71	62835	" "

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Oct. 31	Tincture of Opium.	63546	J. A. Johnston, Smiths Falls.	6 oz.	1 25	.....	.....	1.26	63546	Much above B. P. strength.
" 31	"	63547	L. A. Wilson, Smiths Falls.	6 "	1 25	Vendor .....	.....	0.74	63547	Meets B. P. requirements.
Nov. 5	"	63548	Hull Medical Hall, Hull.	6 "	1 25	.....	.....	0.86	63548	" "
" 5	"	63549	H. Thein, Hull ..	6 "	1 25	.....	.....	0.77	63549	" "
" 6	"	63550	D. J. Johnstone, Ottawa.	6 "	1 25	Vendor .....	.....	0.83	63550	" "
" 6	"	63551	Allan & Cochrane, Ottawa.	6 "	1 25	Vendors .....	.....	0.79	63551	" "
" 7	"	63552	E. M. Ahearn, Ottawa.	6 "	1 25	Vendor .....	.....	0.73	63552	" "
" 7	"	63553	E. J. Durocher, Ottawa.	6 "	1 25	.....	.....	0.79	63553	" "
" 7	"	63554	J. A. Muirgrove, Ottawa.	6 "	1 25	1.07	63554	Above B. P. Strength for B. P. of 1898. Meets requirements of revised edition.
" 7	"	63555	N. W. Campbell, "	6 "	1 25	Vendor	0.77	63555	Meets B. P. requirements.

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DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

No.	2 Tincture of Opium.	61575 F. L. Hooper, Nanpess.	6 oz.	75 Vendor.				61575 Meets B. P. requirements.
-	-	61576 T. B. Wallace.	6 "	1 50				61576 " "
-	-	61577 D. M. Waters, Belleville.	6 "	90				61577 " "
-	-	61578 O. G. Johns, Cobourg.	6 "	1 05				61578 " "
4	-	61579 The Warner Drug Co., Peterborough.	6 "	90				61579 " "

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

No.	16	Tincture of Opium	64612	A. H. Johnson, Collingwood.	6 oz.	65			64612	Meets B. P. requirements.
	17		64613	Geo. Monkman, Barrie.	6 "	75			64613	Nearly meets B. P. requirements but somewhat too weak.
	18		64614	C. A. Nettleton, Peterborough.	6 "	1 20			64614	Meets B. P. requirements.
	19		64615	G. W. Gerie, Mallow.	6 "	75	Vendor from concentrated.		64615	" "
	20		64616	H. Ball, Orillia.	6 "	1 20			64616	Nearly meets B. P. requirements but slightly too weak.
	21		64617	Wm. Crookland, Barrie.	6 "	1 25	Vendor		64617	Meets B. P. requirements.
	22		64618	Geo. H. Hamrah, 221 Spadina ave., Toronto.	6 "	90			64618	" "
	23		64619	W. H. Anderson, 289 Dundas st., Toronto.	6 "	1 20			64619	" "
	24		64620	R. P. Weeks, 186 Wilton ave., Toronto.	6 "	1 00			64620	Below B. P. requirements.

DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

No.	2 Tincture of Opium.	64547 T. F. & T. J. Brown, Orangeville.	6 oz.	90				64547 Below B. P. requirements.
-	-	64548 Farley & Co., 326 2nd Ave. E., Green Sand.	6 "	75				64548 " "
-	-	64549 J. Peterson, Wards.	6 "	75				64549 " "
-	-	64550 H. G. Hunter, Walker, Inds.	6 "	90				64551 " "

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BULLETIN No. 315—TINCTURE OF OPIUM (LAUDANUM).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst. (References are made to the 1895 edition of the British Pharmacopoeia.)
				Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

1914											
Nov. 4	Tincture of Opium.	63948	W. S. McDonald, Tillsburg.	9 oz.	2 25				0.59	63948	Below B. P. requirements.
" 4	"	63956	J. Austen & Co., Simcoe.	6 "	1 20				0.63	63956	" "
" 5	"	63964	E. H. Jackson, Simcoe.	6 "	1 20				0.77	63964	Meets
" 6	"	63968	J. B. Richards & Co., Aylmer.	6 "	75				0.68	63968	" "
" 6	"	63969	Em. A. Caughell.	6 "	90	Vendor.			0.96	63969	Above B. P. strength for edition of 1898. Correct for revised edition of 1914.
" 27	"	63977	W. E. Saunders & Co., London.	6 "	75	"			0.71	63977	Meets B. P. requirements.

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

Oct. 30	Tincture of Opium.	48991	J. K. Hill, Portage-la-Prairie.	6 oz.	1 25				0.67	48991	Meets B. P. requirements.
" 30	"	48992	Portage Pharmacy, Portage-la-Prairie.	6 "	1 50				0.72	48992	" "
Nov. 3	"	48993	Clements Drug Store, Brandon.	6 "	1 50				0.68	48993	" "
" 3	"	48994	McCulloughs Drug Store, Brandon.	6 "	1 25				0.83	48994	" "
" 4	"	48995	Robertson & Co., Brandon.	6 "	50				0.83	48995	Above B. P. strength for B. P. of 1898. Correct for revision of 1914.

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10	4896	Saunders Drug Store, Carman.	6 oz.	1 25	0.76	4896	Meets B. P. requirements.
12	4897	Gladstone Drug Co., Gladstone.	6 "	1 25	.....	0.70	4897	" "
14	4898	St. James Pharmacy, St. James.	6 "	1 50	.....	0.72	4898	" "
17	4899	W. H. C. Gilhe, Selkirk.	6 "	2 10	.....	0.42	4899	Below B. P. requirements.
17	4900	R. H. G. Gully, Selkirk.	6 "	1 80	.....	0.73	4900	Meets B. P. requirements.

DISTRICT OF SASKATCHEWAN—L. H. HALL, INSPECTOR.

Oct. 25	6404	A. DuMagne Ltd., Saskatoon.	6 oz.	2 10	Vendor	.....	6404	Meets B. P. requirements.
" 26	6405	Central Drug Store, Saskatoon.	6 "	1 50	"	.....	6405	Below B. P. requirements.
" 31	6406	A. Duncan, Regina.	6 "	1 50	"	.....	6406	Meets B. P. requirements.
Nov. 3	6407	Dr. Lloyd, Ponne.	6 "	75	"	.....	6407	" "
" 4	6408	T. W. Bradley, Morthack.	6 "	1 50	Vendor.	.....	6408	Above B. P. strength for edition of 1898. Correct for revision of 1914.

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

Nov. 10	5203	Macfarlane & Co., Calgary.	6 oz.	1 00	Vendor	.....	5203	Meets B. P. requirements.
" 21	5204	Thos. Parker Pharmacy, Seattle.	6 "	1 00	"	.....	5204	" "
" 21	5204	H. W. Johnston, Canby.	6 "	1 00	Vendor	.....	5204	" "
" 28	5205	T. F. Hall, Wataskwin.	6 "	1 50	"	.....	5205	" "
" 31	5206	Pharmacy, Lacanbe.	6 "	75	Vendor	.....	5206	Below B. P. requirements.

DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Nov. 30	6172	A. F. Haskins, Morley.	6 oz.	1 25	.....	0.82	6172	Meets B. P. requirements.
" 30	6173	J. H. Campbell, Kae.	6 "	1 25	.....	0.81	6173	" "
" 30	6174	A. Haskins, Kootenay.	6 "	1 25	.....	0.70	6174	" "

BULLETIN 315.—TINCTURE OF OPIUM (LAUDANUM).

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst. (References are to the 1898 Edition of British Pharmacopœia.)
			Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF ROCKY MOUNTAINS—*Concluded.*

1914.										
Dec.	1	Laudanum.	61739	Canada Drug Co., Nelson.	6 oz.	1.50	.....	0.77	61739	Meets B. P. requirements.
"	1	"	61740	Rutherford Drug Co., Nelson.	6 "	1.50	.....	0.61	61740	Below B. P. requirements.

DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.

Oct.	31	Tincture of Opium.	55141	C. H. McFarlane, Burnaby.	6 oz.	1.50	.....	0.77	55141	Meets B. P. requirements.
Nov.	2	"	55142	Campbells Ltd., Granville & Hastings, Vancouver.	6 "	1.50	.....	0.72	55142	"
"	2	"	55143	Woods Pharmacy, Hastings St., Vancouver.	6 "	1.20	.....	0.66	55143	Nearly meets B. P. requirements. Slightly too weak.
"	2	"	55144	Vancouver Drug Co., Hastings St., Vancouver.	6 "	1.50	.....	0.72	55144	Meets B. P. requirements.
"	2	"	55145	Marrett & Reid, Hastings St., Vancouver.	6 "	2.00	Vendors	0.77	55145	"
"	2	"	55146	E. T. Knowlton, Hastings St., Vancouver.	15 6 "	2.50	.....	0.76	55146	"
"	2	"	55147	Woodward Dept. Stores, Vancouver.	6 "	1.25	Vendors	0.53	55147	Below B. P. requirements.

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2	55148	MacLennans Drug Store, 6 750 Columbia St., New Westminster.	1 50				0 74	55148	Meets B. P. requirements.
3	55149	H. Ryall, 701 Columbia St., New Westminster.	1 00				0 68	55149	" "
3	55150	D. T. Curtis & Co., 650 Columbia St., New Westminster.	1 50				0 81	55150	" "

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.									
Nov. 14	Lecture Opium	61996	A. Fraser & Co., 912 6 oz. Govt. St., Victoria.	1 50	Vendor			61996	Meets B. P. requirements.
13		61997	F. J. Williams, 613 Fort St., Victoria.	1 50				61997	Much above B. P. strength.
14		61998	D. E. Campbell, Car. Fort 6 & Douglas St., Victoria.	1 50				61998	Meets B. P. requirements.
15		61999	W. S. Terry, 705 Fort 6 St., Victoria.	75				61999	" "
12		62000	G. U. Bowes, 1228 Govt. 6 St., Victoria.	1 50				62000	" "

APPENDIX G.

BULLETIN No. 316—NATIVE WINE.

OTTAWA, July 8, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue,

SIR,—I beg to submit herewith a report upon one hundred and eighty seven (187) samples purchased as *Native Wine*, in January, February and March of this year. These have been obtained at various points throughout the Dominion, and it may be fairly assumed that they represent the article as sold in Canada.

No extensive inspection of Native Wine has been made by this Department since 1908 (See Bulletin No. 160). Meantime the article has been tentatively and partially defined by Order in Council of February 8, 1911 as follows:

1. Wine is the product of the normal alcoholic fermentation of the juice of sound ripe grapes, neat, or variously modified, and followed by a proper cellar treatment.

2. All beverages sold or offered for sale as Wine shall be distinctly labelled to show the place of their production; and shall meet the requirements for wine, which are established by law in the place of their production.

3. Wine made in any part of Canada shall be labelled in such a way as to show the locality in which it has been produced. The specific name of such locality together with the names of the makers, shall be held to be a legal description of the article.

NOTE.—The defining of types of Canadian made Wines is postponed until sufficient data have been secured.

The present inspection has for one chief object, an attempt to secure data which might serve to classify the various types of native wines. Many of these are called ports, others evidently aim at the claret type. Most of them are merely described as *Wine*; and a few of these are fairly dry; i.e. contain but little residual sugar.

Of the samples herein reported forty (40) are received in bottles which bear labels, having the name of the manufacturer and the place of production printed thereon, thus meeting requirements of subsection 3 above. These I have indicated as properly labelled. Several samples are distinguished by a monogram or private marks, which may possess a meaning to the initiated, but cannot be held as fulfilling the requirements of the Order in Council.

Most of these samples are supplied in bottles bearing no label; or having a label on which the name of manufacturer and place of production does not appear. In this matter they fail to meet legal requirements. It is of course, quite possible that the original container (barrel or keg) in which the shipment was made, may have been labelled in such a way as to show where and by whom manufactured. This information should, however, appear upon each package sold at retail; the intention being to inform the consumer in the matter.

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One sample (No. 60760) is labelled *Unfermented Port*. Such a name is, of course, a contradiction in terms. Unfermented grape juice is possible; unfermented *Port* is impossible. A port wine from which the alcohol had been removed might, correctly enough, be described as dealcoholized port.

Two other samples are grape juice and not wine. One of these is plainly labelled grape juice, and should not have been accepted by the inspector as a wine.

This report is intended to furnish information regarding native wines, and to inform the public as to the character of this article as found on our markets. Your advisory board will be able, it is hoped, in the light of the data herein placed on record, to make recommendations in the matter of classification of wines which shall serve to give greater definiteness and clearer meaning to such terms as Canadian Port, Canadian Sherry, Canadian Claret, etc.

Meantime, I would respectfully suggest its publication as Bulletin No. 316.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF NOVA SCOTIA—

1915.										
Feb. 17	Native Wine.	64101	Kelley & Glas y, Halifax, N.S.	3 pts.	50	Niagara Falls Wine Co.	Mfrs.		1.0347	0.9849
" 17	"	64102	A. Monaghan & Co., Halifax, N.S.	3 "	45	Stamford Park Wine Co., Niagara Falls.	"		1.0430	0.9824
" 17	"	65103	Jas. Scott & Co., Halifax, N.S.	3 "	40	Niagara Falls Wine Co.	"		1.0252	0.9813
" 18	"	64104	T. F. Courtney & Co., Halifax, N.S.	3 "	40	T. G. Bright & Co., Niagara Falls.	" ...	Sold as Native Port.	1.0595	0.9865
" 18	"	64105	E. Donahoe & Son, Halifax, N.S.	3 "	45	" ..	"		1.0274	0.9806
" 19	"	64106	Dillon Bros., Halifax, N.S.	3 "	40	" ..	"		1.0208	0.9803
" 19	"	64107	Cahill & Co., Halifax, N.S.	3 "	45	" ..	"		1.0253	0.9808
" 19	"	64108	Simon & Fraser, Halifax, N.S.	3 "	45	Unknown	E. Donahoe, Halifax, N.S.		1.0234	0.9788
" 22	"	64109	Grace & Castonguay, Halifax, N.S.	3 "	40	T. G. Bright & Co., Niagara Falls.	Mfrs.		1.0198	0.9796
" 22	"	64110	John Tobin & Co., Halifax, N.S.	3 "	40	" ..	"		1.0234	0.9808

DISTRICT OF NEW BRUNSWICK—

Jan. 29	Native Wine.	59666	Comeau & Sheehan, St. John, N.B.	3 pts.	90	T. G. Bright & Co., Niagara Falls.			1.0259	0.9808
" 29	"	59667	W. E. McIntyre, Ltd., St. John, N.B.	3 "	75	" ..			1.0259	0.9809
Feb. 1	"	59668	Foster & Co., St. John, N.B.	3 "	75	Pelee Wine Co., Brantford.		St. Augustine.	1.0536	0.9808
" 1	"	59669	" " "	3 "	60	" ..		Concord ..	1.0723	0.9881
" 3	"	59670	R. Sullivan & Co., St. John, N.B.	3 "	75	Ont. Grape Growing and Wine Mfg. Co., St. Catharines			1.0633	0.9840

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.													No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100cc.								Preservatives.	Dyes.		
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.						
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.				
11 60	14 46	25 34	13 54	15 71	2 96	0 200	-11 0	0 570	0 081	0 469	None.		64101	
11 31	13 99	24 52	15 60	13 54	2 06	0 174	-20 4	0 669	0 073	0 578	Present.		64102	
12 12	14 98	26 25	11 28	8 36	2 92	0 272	-12 0	0 594	0 114	0 432	None.		64103	
8 29	10 30	18 04	18 70	16 62	2 08	0 152	-16 6	0 867	0 330	0 455	Trace.		64104	
12 09	15 68	27 48	12 06	8 42	3 64	0 256	-3 6	0 600	0 120	0 450	None.		64105	
12 50	15 44	27 07	10 31	7 08	3 23	0 304	-6 6	0 603	0 116	0 458			64106	
12 50	15 44	27 07	11 39	8 63	2 76	0 258	-12 4	0 558	0 111	0 420			64107	
13 27	16 38	28 70	11 23	7 74	3 49	0 238	-3 8	0 591	0 098	0 460			64108	
13 46	16 61	29 11	10 35	6 89	3 46	0 286	-5 8	0 579	0 121	0 428			64109	
12 54	15 49	27 15	10 90	7 98	2 92	0 294	-10 0	0 567	0 117	0 421			64110	

R. J. WAUGH, INSPECTOR.														
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.				
11 60	14 46	25 34	13 54	15 71	2 96	0 200	-11 0	0 570	0 081	0 469	None.		64101	
11 31	13 99	24 52	15 60	13 54	2 06	0 174	-20 4	0 669	0 073	0 578	Present.		64102	
12 12	14 98	26 25	11 28	8 36	2 92	0 272	-12 0	0 594	0 114	0 432	None.		64103	
8 29	10 30	18 04	18 70	16 62	2 08	0 152	-16 6	0 867	0 330	0 455	Trace.		64104	
12 09	15 68	27 48	12 06	8 42	3 64	0 256	-3 6	0 600	0 120	0 450	None.		64105	
12 50	15 44	27 07	10 31	7 08	3 23	0 304	-6 6	0 603	0 116	0 458			64106	
12 50	15 44	27 07	11 39	8 63	2 76	0 258	-12 4	0 558	0 111	0 420			64107	
13 27	16 38	28 70	11 23	7 74	3 49	0 238	-3 8	0 591	0 098	0 460			64108	
13 46	16 61	29 11	10 35	6 89	3 46	0 286	-5 8	0 579	0 121	0 428			64109	
12 54	15 49	27 15	10 90	7 98	2 92	0 294	-10 0	0 567	0 117	0 421			64110	

JNO. C. FERGUSON, INSPECTOR.

12 50	15 44	27 07	11 58	7 91	3 64	0 285	-6 6	0 678	0 123	0 524	None.		58006	
12 42	15 36	26 90	11 57	8 37	3 20	0 266	-8 4	0 645	0 086	0 525			58007	
12 50	15 44	27 07	18 91	15 20	3 71	0 218	-12 6	0 501	0 137	0 430			58008	
7 17	8 92	15 03	21 77	18 10	3 07	0 127	-15 1	0 677	0 275	0 325			58009	
10 00	12 49	21 89	20 44	17 59	2 85	0 177	-30 6	0 819	0 102	0 694	Trace with.		58010	

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.
DISTRICT OF NEW BRUNSWICK—										
1915.										
Feb.	3 Native Wine.	59671	R. Sullivan, & Co., St. John, N. B.	3 pts.	1 50	Ont. Grape Growing and Wine Mfg. Co., St. Catharines.	.....	Golden Diana.	1·0617	0·9819
"	3 "	59672	" " "	3 bots.	2 70	" " "	.....	7 year Old Port.	1·0598	0·9808
"	4 "	59673	P. M. O'Neil, St. John, N. B.	3 pts.	90	Stamford Park Wine Co., Niagara Falls.	.....	.....	1·0544	0·9828
"	4 "	59674	" " "	3 bots.	1 29	" " "	.....	Gold Medal Port.	1·0440	0·9821
"	9 "	59675	T. H. Haley, St. John, N. B.	3 pts.	1 00	T. G. Bright & Co., Niagara Falls.	.....	Concord.	1·0254	0·9806
DISTRICT OF QUEBEC CITY—										
Jan.	20 Vin Canadien.	60754	Arthur Drolet, 712 Rue St. Valier, Quebec.	3 pts.	90	Stamford Park Wine Co.	.....	.....	1·0388	0·9832
"	20 "	60755	" " "	3 "	90	T. Bright Co., Niagara Falls.	.....	.....	1·0236	0·9813
"	20 Vin Diamond.	60756	T. A. Bedard, 728 Rue St. Valier, Quebec.	3 "	1 20	" " "	.....	Diamond.	1·0307	0·9825
"	20 Vin Concord.	60757	" " "	3 "	1 50	" " "	.....	Concord.	1·0320	0·9815
"	21 "	60758	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 "	1 00	Niagara Wine.	.....	.....	1 0284	0·9819
"	21 Vin Canadien.	60759	" " "	3 "	80	A. Toussaint & Cie.	.....	Competition.	1·0455	0·9866
"	21 Unfermented.	60760	" " "	3 "	1 50	The Turner Co., Ltd., Toronto.	.....	.....	1·0821	0·9999
"	21 Vin Canadien.	60761	Cantin & Frère, 271 Rue St. Joseph, Quebec.	3 "	1 20	A. Toussaint & Cie., Quebec.	.....	.....	1·0263	0·9844
"	22 Niagara.	60762	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	3 "	1 00	T. Bright Co., Niagara Falls.	N. Rioux & Cie.	.....	1·0420	0 9815
"	22 Port X...	60763	" " "	3 "	66	A. Toussaint & Cie., Quebec.	.....	Port X...	1·0214	0 9840

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.													Remarks and Opinion of the Chief An- alyst.	
Alcohol.			Grammes per 100cc.									Preservatives.		Dyes.
By Weights.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.						
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.				
													No. of Sample.	

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
11.71	14.49	25.39	20.66	17.91	2.75	0.157	34.8	0.876	0.089	0.765	None.			59671 Properly label- led.
12.52	15.47	27.12	20.46	17.73	2.73	0.191	30.8	0.681	0.112	0.512	Pre- sent.			59672
11.00	13.62	23.86	18.30	16.33	1.97	0.166	18.0	0.606	0.068	0.521				59673
11.51	14.24	24.95	15.79	13.56	2.23	0.165	19.0	0.642	0.069	0.555				59674
12.69	15.68	27.45	11.49	8.54	2.82	0.242	11.6	0.573	0.102	0.445	None			59675

F. X. W. E. BELAND, INSPECTOR.

10.69	13.24	23.21	14.41	11.15	3.26	0.172	13.4	0.840	0.125	0.684	None	None		60754
12.15	15.02	26.33	10.95	7.20	3.75	0.212	7.2	0.585	0.055	0.516				60755
11.23	13.90	24.36	12.48	7.77	4.71	0.308	0.2	0.660	0.130	0.500				60756
12.00	14.84	26.00	13.08	8.39	4.69	0.220	5.6	0.549	0.058	0.476				60757
11.69	14.16	25.31	12.04	7.53	4.51	0.268	6.0	0.627	0.065	0.546	Pre- sent			60758
8.21	10.21	17.89	15.27	4.60		0.156	20.4	0.680	0.108	0.585				60759
0.00	0.07	0.12	21.36	17.30	4.06	0.280	18.0	0.794	0.031	0.555				60760 Labelled "Under inspected port."
9.79	12.13	21.27	10.84	7.82	3.02	0.220	3.6	0.531	0.064	0.461				60761
12.00	14.84	26.00	15.98	13.16	2.52	0.232	6.2	0.338	0.075	0.468				60762
10.08	12.49	21.80	9.68	7.96	1.72	0.168	2.0	0.440	0.082	0.437				60763

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF QUEBEC PROVINCE—

1915.										
Jan. 26	Vin Can- adien.	3760	G. & Ed. Cou- ture, Levis.	3 bots.	1 20	Ont. Grape Growing & Wine Mfg. Co.			1.0689	0.9880
" 26	" ..	3761	" " ..	3 "	75	" " ..			1.0620	0.9836
" 27	" ..	3767	J. A. Gagnon & Fils., Levis.	3 "	35	A. Toussaint Cie., Que- bec.			1.0179	0.9812
" 27	" ..	3768	" " ..	3 "	35	" " ..			1.0410	0.9844
" 28	" ..	3770	Louis Mercier & Cie., Levis.	1 pt.	25	J.H. Lee Co. Toronto.			1.0451	0.9859
" 29	" ..	3775	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 bots.	75	E. D. Smith. Winona.			1.0750	1.000
" 30	" ..	3776	Frs. Bourret, 145 St. Paul St. Quebec.	3 "	20	A. Toussaint & Cie., Quebec.			1.0450	0.9844
Feb. 1	" ..	3778	S. Martel, Quebec.	3 "	75	T. Bright Co. Niagara Falls.			1.0234	0.9820
" 2	" ..	3780	P. J. Turgeon, Quebec.	3 "	75	" " ..			1.0247	0.9842
Jan. 29	" ..	3773	O. Lacroix, 19 Rue St. Joseph, Quebec.	3 "	75	N i a g a r a Wine Co.			1.0280	0.9982

DISTRICT OF THREE RIVERS—

Jan. 16	Vin Can- adien.	3931	George Gonin, St. Félix de Valois.	3 bots	75	Ont. Grape Growing Wine Co., St. Cathar- ine.			1.0670	0.9846
" 18	"	3932	L. A. Chaetier, Joliette.	3 "	75	St. David Growers Co. Toronto.	J. J. Sou- mis, Joli- ette.		1.0438	0.9864
" 19	"	3933	Joseph Bordeleau, Joliette.	3 "	30	Niag'a Falls Wine Co.			1.3060	0.9820
" 20	"	3934	Ludger Duperant, St. Félix de Valois.	3 "	50	St. David Growers Co. Toronto.			1.0456	0.9861
" 20	"	3935	W. M. Perrault, Joliette.	3 "	90	Cherry Wine Niagara Co. N.F.			1.0202	0.9816
" 22	"	3936	Thomas Laporte, L'Assomption.	3 "	75	Niag'a Fall- Wine Co., Niag'a Falls			1.0276	0.9830

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.														No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100cc.								Preservatives.	Dyes.			
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.							
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.					
14.82	18.25	31.99	21.02	18.84	3.18	0.180	-31.6	0.930	0.046	0.873	None.	None.	3760	Properly labelled.	
10.38	12.87	22.55	20.36	15.58	4.78	0.172	-35.0	0.780	0.058	0.707	Pre-sent.	"	3761	"	
12.23	15.12	26.49	9.49	6.54	2.95	0.160	-6.2	0.540	0.084	0.435	None.	"	3767	"	
9.79	12.13	21.27	14.67	12.09	2.58	0.148	-9.6	0.624	0.065	0.543	"	Pre-sent.	3768	"	
8.71	10.82	18.96	15.35	11.69	3.66	0.200	-20.4	0.720	0.105	0.589	Pre-sent.	"	3770	"	
None.	None	None	19.47	17.11	2.36	0.268	-20.8	1.260	0.120	1.110	None.	None.	3775	Labelled "Grape Juice."	
9.79	12.13	21.27	15.71	11.00	4.71	0.132	-7.6	0.643	0.065	0.562	"	Pre-sent.	3776	"	
11.62	14.37	25.18	10.71	7.06	3.65	0.300	-0.8	0.630	0.090	0.585	"	"	3778	"	
9.95	12.31	21.57	10.48	8.94	1.54	0.264	-8.2	0.600	0.072	0.468	"	"	3780	"	
7.13	8.88	15.56	8.00	7.77	0.33	0.280	-6.6	0.624	0.048	0.564	Pre-sent.	"	3773	"	

DR. V. P. LAVELLEE, INSPECTOR.

9.64	11.06	20.96	21.41	19.16	3.25	0.200	-20.0	0.825	0.064	0.741	Pre-sent.	Pre-sent.	3803	"
8.36	10.38	18.20	14.87	11.15	3.72	0.188	-25.0	0.735	0.067	0.651	None.	"	3802	"
11.62	14.37	25.18	12.58	8.64	3.95	0.252	-10.2	0.615	0.082	0.540	"	"	3805	"
8.67	10.05	18.65	15.42	11.45	3.97	0.164	-23.0	0.720	0.104	0.594	Pre-sent.	None.	3804	"
11.92	14.74	25.83	10.60	7.11	2.60	0.268	-5.0	0.645	0.005	0.564	None.	"	3808	"
10.85	13.43	23.51	11.55	7.11	4.44	0.268	-11.5	0.600	0.048	0.540	"	Pre-sent.	3826	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF THREE RIVERS—

1915.										
Jan. 22	Vin Can- adien.	3937	Vital Lafortune, L'Assomption.	3 bots	90	Niag'a Falls Wine Co., Niag'a Falls			1 0274	0 9817
" 25	"	3938	Camille Barrette, Joliette.	3 "	40	"				
" 25	"	3939	L. Z. Magnan, Joliette.	3 "	1.05	"			1 0247	0 9816
" 25	"	3952	Napoleon Garcan, Joliette.	3 "	55		J. J. Sou- mis, Joli- ette.		1 0487	0 9861

DISTRICT OF EASTERN TOWNSHIPS—

Feb. 9	Vin Can- adien.	1762	E. McGovern, Richmond E.t.	3 bots	70	Niag'a Falls Wine Co., Niag'a Falls			1 0247	0 9809
" 10	"	1763	P. Lavigne, Vic- toriaville.	3 "	50		H. H. Guay Ltd., Vic- toriaville		1 0464	0 9857
" 16	"	1764	T. F. Proulx, Windsor Mills.	3 "	60	St. David Wine Gro- ers, Toronto	J. Lavigne Windsor Mills.		1 0447	0 9865
" 16	"	1765	W. Murray & Co., Sherbrooke.	3 "	65	"			1 0468	0 9870
" 22	"	1766	R. Dubreuil, St. Cesaire.	3 "	90	"			1 0465	0 9864
" 22	"	1767	M. Bessette, Mar- ieville.	3 "	60	Stamford Park Wine Co., Ltd., Niag'a Falls			1 0380	0 9863
" 22	"	1768	J. Lalanne, St. Hilaire Sta.	3 "	1.10	"			1 0275	0 9824
Mar. 4	Vin Can- adien. Rouge.	1769	H. Berdet, St. Hyacinthe.	3 "	....	"			1 0163	0 9900
" 22	Vin Can- adien Blanc.	1770	V. Martinon, St. Hyacinthe.	3 "	90	"			0 9964	0 9870
" 26	Vin Can- adien. Rouge.	1771	La. Cie S. Bour- geois Inc., St. Hyacinthe.	3 "	60	"			1 0539	0 9838

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.														No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100cc.									Preservatives.	Dyes.		
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. Tube Direct.	Acidity.			Fixed as Tartaric.				
								Total as Tartaric.	Volatile as Acetic.						

Continued.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.					
11 85	14 65	25 67	11 83	8 06	3 77	0 272	- 9 0	0 564	0 055	0 490	None.	Pre-sent.		3937	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	*3938	
11 92	14 74	25 83	11 15	7 87	3 28	0 228	- 6 4	0 615	0 060	0 541	None	Pre-sent.		3939	
8 57	10 65	18 65	16 07	12 44	3 63	0 156	-22 4	0 885	0 091	0 772	Pre-sent.			3952	

J. C. ROULEAU, INSPECTOR.

12 46	15 40	26 99	11 34	7 41	3 90	0 226	-12 2	0 669	0 060	0 534	None	Pre-sent.		1762	
8 86	11 00	19 27	15 74	11 84	3 90	0 200	-24 0	0 735	0 077	0 639	Pre-sent.			1763	
8 29	10 30	18 04	15 08	11 45	3 63	0 130	-16 0	0 717	0 093	0 611				1764	
7 93	9 86	17 29	15 50	11 64	3 86	0 160	-19 0	0 670	0 091	0 567	None			1765	
8 36	10 38	18 20	15 58	11 05	4 53	0 180	-25 0	0 918	0 122	0 756				1766	
8 43	10 47	18 25	13 39	12 64	0 75	0 260	-23 4	0 276	0 088	0 190	None			1767	
11 31	13 99	24 52	11 68	8 57	3 31	0 260	- 0 4	0 270	0 043	0 237				1768	
5 87	7 32	12 84	6 80	0 63		0 140	- 0 2	0 732	0 024	0 799				1769	
7 93	9 86	17 29	2 43	0 84	1 09	0 212	- 1 0	0 759	0 030	0 714				1770	
10 23	12 68	22 22	18 19	12 64	5 64	0 262	- 3 6	0 681	0 060	0 616		Pre-sent.		1771	

* Both samples broken.

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.	Of Wine.	Of Distillate.

DISTRICT OF MONTREAL—

1915.									
April 10	Native Wine.	62661	J. A. R. Beaudin, 1283 Desrables St., Montreal.	3 pts.	33	St. David Wine Co.		1·0432	0·9867
" 10	"	62662	J. E. Perreault, 1157 Marieanne St. E., Montreal.	3 "	30	Stamford Park Wine Co.		1·0602	0·9862
" 10	"	62663	Grenon Freres, 680 Papineau Ave., Montreal.	3 "	38	Hudon & Orsali.		1·0265	0·9814
" 10	"	62664	T. Bertrand, 102 De Laroche St., Montreal.	3 "	60	Ont. Grape Growing Co.		1·0729	0·9861
" 10	"	62665	James Kilgallon, 421 Wellington St., Montreal.	3 "	40	Stamford Park Wine Co.		1·0631	0·9877
" 10	"	62666	J. H. Dupuis, 373 Wellington St., Montreal.	3 "	50	"		1·0479	0·9993
" 10	"	62667	J. E. Behsle, 129 Wellington St., Montreal.	3 "	60	St. David Wine Co.		1·0427	0·9860
" 10	"	62668	P. Bedard, 2236 St. Denis St., Montreal.	3 "	50	Hudon & Orsali.		1·0257	0·9818
" 10	"	62669	D. D. Gauthier, 111 St. Zotique St., Montreal.	3 "	45	"		1·0282	0·9821
" 10	"	62670	H. Plouffe, 92 St. Zotique St., Montreal.	3 "	60	"		1·0261	0·9818

DISTRICT OF VALLEYFIELD—

Feb. 1	Wine	58226	G. Dupuis, St. Johns, P.Q.	3 pts.	40	Ont. Grape Growing Co., St. Catharines.		1·0738	0·9852
" 1	"	58227	F. Claprood, St. Johns, P.Q.	3 "	50		E. H. Hebert, Valleyfield.	1·0451	0·9818
" 5	"	58228	E. H. Hebert, Valleyfield.	3 "	38	Stamford Park Wine Co.		1·0472	0·9827
" 5	"	58229	J. A. Masson, Valleyfield.	3 "	35	Niagara Falls Wine Co.		1·0244	0·9829

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.													No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100cc.								Preservatives.	Dyes.		
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.						
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.				

D. J. KEARNEY, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.				
8.86	11.00	19.27	14.90	11.64	3.26	0.180	-23.0	0.573	0.028	0.538	Pre-sent.	Pre-sent.	62661	
8.59	10.50	18.50	19.21	15.90	3.22	0.228	-29.6	0.801	0.098	0.679	None.	"	62662	
12.08	14.93	26.17	11.68	8.10	3.58	0.268	-12.2	0.582	0.055	0.513	"	"	62663	
8.57	10.65	18.65	22.57	18.62	3.95	0.200	-29.0	0.798	0.067	0.714	Pre-sent.	None.	62664	
7.47	9.29	16.28	19.58	15.27	4.31	0.264	-31.0	0.840	0.046	0.782	"	Pre-sent.	62665	
0.37	0.46	0.81	12.58	11.00	1.58	0.220	-3.6	0.705	0.041	0.654	"	None.	62666	Grape Juice.
8.64	10.73	18.81	14.69	12.04	2.63	0.156	-21.8	0.714	0.093	0.590	"	Pre-sent.	62667	
11.77	14.56	25.51	11.36	7.91	3.45	0.268	-10.4	0.549	0.036	0.504	None.	"	62668	
11.54	14.27	25.01	11.94	7.72	4.22	0.280	-10.4	0.588	0.065	0.507	"	None.	62669	
11.62	14.37	25.18	11.21	8.39	2.82	0.228	-9.0	0.486	0.038	0.438	"	Pre-sent.	62670	

J. J. COSTIGAN, ACTING INSPECTOR.

9.21	11.41	20.01	23.04	19.09	3.95	0.212	-32.4	0.990	0.067	0.906	Pre-sent.	None.	62671	
11.77	14.56	25.51	16.41	11.20	2.21	0.280	-15.6	0.676	0.031	0.542	"	"	62672	
11.08	13.71	24.03	16.73	14.66	2.07	0.244	-18.8	0.699	0.041	0.645	"	"	62673	
10.92	13.52	23.70	10.74	7.58	3.16	0.308	-6.8	0.594	0.060	0.526	None.	Pre-sent.	62674	

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF VALLEYFIELD—										
1915.										
Feb.	5 Wine....	58230	J. Le page, Valleyfield.	3 pts.	38	Stamford Park Wine Co.			1.0455	0.9818
"	5 "	58231	S. Beaudin, Valleyfield.	3 bots	75			Bottled by vendor.	1.0727	0.9855
"	16 "	58232	A. Filion, Buckingham.	3 pts.	50	Niagara Falls Wine Co.			1.0204	0.9808
"	16 "	58233	Tourangeau & Champagne, Buckingham.	3 "	50				1.0614	0.9842
"	23 " ...	58234	S. Gauthier, Farnham.	3 "	75				1.0398	0.9884
"	23 "	58235	H. F. Batalon, Farnham.	3 "	60		Narcisse Loul, St. Johns, P.Q.		1.0443	0.9804

DISTRICT OF OTTAWA—										
Feb.	3 Native Wine.	63187	The Ottawa Wine Vaults Co., Ottawa.	3 bots.	100	Stamford Park Wine Co., Niagara Falls.	Mfrs. ...	Old Niagara.	1.0512	0.9833
"	3 " "	63488	" " "	3 "	50	" " "	"	Gold Medal.	1.0496	0.9847
"	3 " "	63489	S. J. Major, Ltd., Ottawa.	3 "	45	T. G. Bright Co., Niagara Falls.	"	Diamond.	1.0273	0.9818
"	3 " "	63490	" " "	3 "	60	" " "	"	Royal.	1.0266	0.9804
"	6 " "	63491	M. J. Laverdure, Hull.	3 "	75	Ont. Grape Growing & Wine Mfg. Co., St. Catharines.	"	Pure Grape Wine.	1.0673	0.9846
"	6 " "	63492	" " "	3 "	75	St. David Wine Growers Co., Toronto.	"		1.0426	0.9842
"	8 " "	63493	Jos. Lavigne, 332 Wellington St., Ottawa.	3 "	75	Stamford Park Wine Co., Niagara Falls.	"		1.0376	0.9834
"	8 " "	63494	A. L. Pinard Sons, Rideau St., Ottawa.	3 "	1 50	T. G. Bright Co., Niagara Falls.	"		1.0276	0.9810
"	8 " "	63495	J. H. O'Reilly, Rideau St., Ottawa.	3 "	75	Pelee Island Wine & Vineyards Co., Brantford.	"		1.0654	0.9867
"	8 " "	63496	" " "	3 "	1 50	" " "	"	St. Augustine.	1.0577	0.9823

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.															Remarks and Opinion of the Chief Analyst.		
Alcohol.			Grammes per 100cc.										Preservatives.	Pyes.		No. of Sample.	
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.			Total as Tartaric.	Volatile as Acetic.					Fixed as Tartaric.
<i>Concluded.</i>																	
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.							
11.77	14.56	25.51	16.52	13.69	2.83	0.220	-16.0	0.696	0.038	0.648	Pre- sent.	None		58230			
9.00	11.17	19.58	22.67	19.05	3.62	0.212	-32.2	0.975	0.130	0.703	"	"		58231			
12.54	15.49	27.15	10.25	6.73	3.52	0.220	-10.0	0.510	0.048	0.450	None	Pre- sent.		58232			
9.93	12.31	21.57	20.05	16.10	3.95	0.200	-20.6	0.870	0.060	0.795	Pre- sent.	None		58233			
7.00	8.72	15.27	13.34	8.34	3.90	0.180	-4.0	0.816	0.106	0.710	"	"		58234			
12.85	15.86	27.81	16.57	14.53	2.04	0.220	-1.0	0.740	0.036	0.695	None	"		58235			
<i>J. A. RICKEY, INSPECTOR.</i>																	
10.62	13.15	23.04	17.62	14.15	3.47	0.188	-23.4	0.615	0.036	0.570	Pre- sent.	None		63487			
9.57	11.87	20.81	16.83	13.24	3.59	0.184	-3.4	0.765	0.055	0.696	None	"		63488			
11.77	14.56	25.54	11.78	10.86	0.92	0.208	9.6	0.585	0.065	0.504	"	Pre- sent		63489			
12.85	15.86	27.81	11.96	7.63	4.33	0.240	-0.6	0.609	0.077	0.543	"	"		63490	Property labelled.		
9.64	11.96	20.96	21.49	10.98	4.51	0.228	-30.2	0.885	0.072	0.793	Pre- sent.	None		63491			
9.93	12.31	21.57	15.14	12.49	2.65	0.180	-21.0	0.696	0.061	0.582	"	Pre- sent.		63492	Property labelled.		
10.54	13.05	22.88	14.04	12.05	1.99	0.320	-17.0	0.690	0.041	0.630	"	None		63493			
12.38	15.30	26.82	12.06	7.49	1.57	0.280	-2.0	0.660	0.063	0.600	None	"		63494			
8.14	10.12	17.74	20.44	16.02	3.82	0.124	-10.4	0.714	0.120	0.764	"	Pre- sent.		63495			
11.38	14.00	24.00	10.58	0.30	"	0.122	-20.0	0.690	0.045	0.591	"	"		63496	Property labelled.		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF KINGSTON--

1915.										
Feb.	1	Native Wine.	66526 The Thompson Co., Kingston.	3 bots.	90	.....	.....	Bottled by Vendor.	1'0160	0'9861
"	1	"	66527 E. Beaupre, Kingston.	3 "	1 50	Hillhurst Wine Mfg. Co., St. Catharines.	.....	Canadian Port.	1'0699	0'9846
"	1	"	66528 J. Gordon, Kingston.	3 "	1 50	.....	.....	Sherry. Bottled by Vendor.	0'9863	0'9808
"	1	"	66529 " "	3 "	1 50	Ont. Grape Growing & Wine Mfg Co., St. Catharines.	.....	Port	1'0747	0'9853
"	1	"	66530 J. McParland, Kingston	3 "	1 50	T. G. Bright & Co., Toronto	.....	.....	1'6317	0'9821
"	1	"	66531 " "	3 "	1 50	Peele Island Wine & Vineyards Co.	.....	St. Augustine.	1'0650	0'9829
"	15	"	67532 W. A. Radbourne, Belleville.	3 "	90	T. G. Bright, Toronto.	.....	.....	1'0268	0'9823
"	15	"	66533 Wesley Bullen, Belleville.	3 "	1 35	Peele Island Wine & Vineyards Co.	.....	.....	1'0617	0'9848
"	16	"	66534 Hoocy & Son, Cobourg.	3 "	90	T. G. Bright, Toronto.	.....	.....	1'0587	0'9829
"	16	"	66535 William Mitchell, Port Hope.	3 "	1 50	T. G. Bright, Niagara Falls	.....	.....	1'0291	0'9816

DISTRICT OF TORONTO

Jan.	29	Native Wine.	64648 T. F. Hannan, 834 Yonge st., Toronto.	3 pts.	75	T. G. Bright, Niagara Falls.	.....	.....	1'0267	0'9823
"	29	"	64649 A. P. Herbert, 183 King st., E., Toronto.	3 bots.	75	"	.....	.....	1'0253	0'9841
"	29	"	64650 Ryan & Co., Ltd., 228 Bloor st., W., Toronto.	3 pts.	60	"	.....	.....	1'0261	0'9815
"	29	"	64651 J. H. King, 112 Dundas st., Toronto.	3 bots.	1 05	Peele Island Wine & Vinegar Co., Brantford.	.....	St. Augustine.	1'0706	0'9836

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.

Alcohol.			Grammes per 100cc										Preservatives.	Dyes.	No. of Sample	Remarks and Opinion of the Chief Analyst.
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. Tube Direct.	Acidity.								
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.						

JAMES HOGAN, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.					
8.57	10.65	18.65	15.53	13.64	1.89	0.206	-24.0	0.080	0.175	0.862	Pre-sent.	Pre-sent.	66526		
9.64	11.96	20.96	22.17	16.98	5.19	0.196	-22.1	0.861	0.077	0.765	"	None.	66527	Properly labelled.	
12.54	15.49	27.15	1.42	1.10	0.32	0.336	-0.6	0.402	0.036	0.357	None.	"	66528		
9.14	11.35	19.89	23.25	21.72	1.53	0.228	-34.2	0.916	0.077	0.820	Pre-sent.	"	66529		
11.54	14.27	25.01	12.84	8.63	4.21	0.252	-4.6	0.570	0.057	0.499	None	Pre-sent.	66530		
10.92	13.52	23.70	21.33	16.98	4.35	0.228	-13.6	0.574	0.038	0.452	"	"	66531		
11.38	14.09	24.69	11.52	8.25	3.27	0.252	-6.0	0.585	0.156	0.390	"	"	66532		
9.50	11.79	20.65	19.97	15.68	3.29	0.168	-13.0	0.732	0.163	0.529	"	"	66533	Properly labelled.	
10.92	13.52	23.70	11.91	8.06	3.85	0.280	-9.0	0.741	0.096	0.621	"	"	66534		
11.92	14.74	25.83	12.30	9.11	3.19	0.156	-6.0	0.633	0.072	0.543	"	"	66535		

H. J. DAGER, INSPECTOR.

11.38	14.09	24.69	11.48	8.20	3.29	0.296	-2.0	0.645	0.053	0.578	None	Pre-sent.	66648		
10.00	12.40	21.73	10.66	8.01	2.65	0.216	-10.2	0.606	0.046	0.549	"	"	66649	Properly labelled.	
12.00	14.84	26.00	11.55	8.16	2.50	0.268	-6.8	0.609	0.036	0.540	"	"	66650		
10.38	12.87	22.55	22.62	19.81	2.81	0.156	-10.2	0.480	0.084	0.390	"	"	66651	Properly labelled.	

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF TORONTO—

1915.										
Jan. 30	Native Wine.	64652	W. J. Kelly, 749 Queen st., W., Toronto.	3 bots.	75	J. W. Lee & Co., Toronto.			1.0447	0.9852
Feb. 18	"	64653	M. Finigan, Whiteby.	3 "	1.00	Ont. Wine Growing & Mfg. Co., St. Catharines.			1.0756	0.9857
" 24	"	64654	E. T. Sardell, 525 Yonge st., Toronto.	3 "	90	"			1.0127	0.9810
" 26	"	66811	The Wm. Mora Co., Ltd., 94 Yonge st., Toronto.	3 "	1.35	Niagara Falls Wine Co., Niagara Falls.	Concord		1.0243	0.9803
" 26	"	66812	Michie Co., Ltd, 5½ King st., W., Toronto.	3 "	1.35	T. G. Bright Co., Niagara Falls.	"		1.0248	0.9812
" 26	"	66813	J. Mather, 152 King st. E., Toronto.	3 "	90	"			1.0242	0.9818

DISTRICT OF HAMILTON—

Mar. 2	Native Wine.	66834	Geo. Bernhardt, Preston.	3 bots.	75	T. G. Bright & Co., Niagara Falls.			1.0287	0.9819
" 3	"	66835	J. E. Segrain & Sons, Waterloo, Ont.	3 "	90	J. S. Hamilton & Co., Brantford.			1.0632	0.9861
" 3	"	66836	Reinhardt & Zeyler, Berlin.	3 "	90	Ont. Grape Growing & Wine Mfg. Co., St. Catharines.			1.0652	0.9892
" 9	"	*66837	J. S. Hamilton & Sons, Brantford	3 "	90	Vendors.				
" 12	"	66838	J. Haurigan, Dundas.	3 "	90	T. G. Bright Co., Niagara Falls.			1.0249	0.9813
" 12	"	66839	M. Cummings, 4 Barton st., E., Hamilton.	4 3 "	75	Stamford Park Wine Co., Niagara Falls.			1.0555	0.9815
" 12	"	66840	H. Callows, 255 Hughson st., N., Hamilton.	3 "	90	St. Davids Wine Co., Ltd., Toronto.			1.0495	0.9866

* Both samples broken.

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.														Remarks and Opinion of the Chief Analyst
Alcohol.			Grammes per 100cc											
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.			Preservatives.	Dyes.	No. of Sample.	
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.				

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.			
9.21	11.44	20.04	15.42	11.99	3.43	0.152	- 26.8	0.690	0.093	0.574	Pre-sent.	Pre-sent.	64652
8.86	11.00	19.27	23.38	19.71	3.67	0.240	- 14.0	0.885	0.014	0.870	None.	None.	64653
12.38	15.30	26.82	8.20	4.83	3.37	0.180	- 8.0	0.879	0.048	0.819	-	-	64654 Property labelled
12.92	15.96	27.97	11.39	9.75	1.44	0.250	- 0.7	0.684	0.041	0.633	-	-	66811
12.23	15.12	26.49	11.28	8.77	2.51	0.230	+ 2.0	0.678	0.026	0.645	-	Pre-sent.	66812
11.77	14.56	25.51	10.97	7.96	3.01	0.240	- 7.0	0.672	0.069	0.602	-	-	66813

H. J. DAGER, ACTING INSPECTOR.

11.69	14.46	25.31	12.12	8.31	3.78	0.268	- 9.6	0.588	0.064	0.508	None.	Pre-sent.	66834
8.57	10.65	18.65	20.02	15.79	4.23	0.164	- 10.0	0.717	0.163	0.513	-	-	66835
6.43	8.01	14.04	19.73	16.72	3.01	0.200	- 30.0	0.858	0.057	0.787	Pre	None.	66836 Property labelled
													66837
12.15	15.02	26.33	11.28	9.61	1.67	0.268	- 1.6	0.268	0.016	0.201	None.	None.	66838 Property labelled
12.00	14.84	26.00	19.21	13.74	5.47	0.220	- 7.0	0.960	0.050	0.904	Pre-sent.	-	66839
8.21	10.21	17.89	16.31	12.30	3.92	0.124	- 17.0	0.000	0.120	0.710	-	-	66840

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Of Wine.	Of Distillate.
				Quantity.	Cents.	Manufacturer.	Furnisher.			

DISTRICT OF HAMILTON—

1915.										
Mar. 12	Native Wine.	66841	James Blake, 117 Simcoe st., E., Hamilton.	3 bots.	99	.....	Jas. Turner, Hamilton.	.....	1-0277	0-9815
" 12	"	66842	Strickland & Shea, 276 King st., E., Hamilton.	3 "	90	The Hill-rust Wine Mfg. Co., St. Catharines.	.....	.....	1-0483	0-9842
" 12	"	66843	Wm. Smye, Jr., 75 Wellington st., N., Hamilton.	3 "	90	Stamford Park Wine Co., Niagara Falls.	.....	.....	1-0453	0-9825

DISTRICT OF WINDSOR—

Jan. 21	Native Wine.	63978	Ed. Shea, London.	3 pts.	60	Stamford Wine Co., Niagara Falls.	.....	.....	1-0586	8-9859
" 21	"	63979	" " "	3 "	75	T. G. Bright Co., Niagara Falls.	.....	.....	1-0284	0-9818
" 21	"	63980	P. J. Watt, London.	3 bots.	Nil.	Stamford Wine Co., Niagara Falls.	.....	Gold Medal Port.	1-0448	0-9828
" 25	"	63981	Hockin Bros., London.	3 "	120	Girafilot Wine Co., Sandwich.	.....	.....	1-0653	0-9862
" 26	"	63983	E. B. Smith, London.	3 "	75	Ont. Grape and Wine Co., St. Catharines.	.....	.....	1-0663	0-9844
Feb. 9	"	63984	Donald Fraser, St. Thomas.	3 pts.	35	St. David's Wine Growers.	.....	Port E....	1-0451	0-9862
" 9	"	63985	" " "	3 bots.	75	Pelee Island Wine and Vineyard Co.	.....	.....	1-0506	0-9855
" 9	"	63986	E. J. Butler, St. Thomas.	3 "	75	Niagara Falls Wine Co., Ltd.	.....	.....	1-0302	0-9826
" 9	"	63987	J. H. Price, St. Thomas.	3 pts.	50	St. David's Wine Co., Toronto.	.....	Port.....	1-0494	0-9861
" 9	"	63988	" " "	3 bots.	150	T. G. Bright Co., Toronto.	.....	Concord..	1-0278	0-9817

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.														No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100cc.									Preservatives.	Dyes.		
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.							
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.					
<i>Concluded.</i>															
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.					
12.09	14.84	26.90	11.96	7.68	4.28	0.280	- 9.0	0.684	0.055	0.629	None.	Pre-sent.	66841		
9.93	12.31	21.57	16.62	13.64	2.98	0.200	-16.5	0.747	0.046	0.689	Pre.	None.	66842	Properly labelled.	
11.23	13.90	24.36	16.2	11.69	4.59	0.236	-13.6	0.690	0.070	0.610	None.	Pre-sent.	66843		

Concluded.

JNO. TALBOT, INSPECTOR.

8.71	10.82	18.96	18.87	16.46	2.41	0.200	-29.6	0.726	0.025	0.689	Pre-sent.	Pre-sent.		63978	
11.77	14.56	25.51	11.96	6.92	5.04	0.292	-24.0	0.696	0.065	0.609	None.			63979	
11.00	13.62	23.86	16.07	13.64	3.43	0.244	-17.4	0.699	0.032	0.659	Pre-sent.	None.		63980	
8.50	10.56	18.50	20.55	17.14	3.31	0.188	-12.6	0.764	0.237	0.468	None.	Pre-sent.		63981	Properly labelled.
9.79	12.13	21.27	21.28	17.14	5.14	0.164	-31.4	0.870	0.134	0.615	Pre-sent.	None.		63982	
8.57	10.65	18.65	15.27	13.04	2.23	0.160	-1.4	0.750	0.091	0.637		Pre-sent.		63984	
9.00	11.17	19.58	16.88	13.04	3.84	0.148	-21.8	0.723	0.081	0.622				63985	Properly labelled.
14.15	13.81	21.19	12.32	7.87	4.45	0.300	-4.6	0.645	0.055	0.546	None.			63986	
8.57	10.65	18.65	16.41	12.04	3.77	0.188	-28.0	0.680	0.125	0.519	Pre-sent.	None.		63987	
11.85	14.05	15.07	11.94	7.87	4.07	0.272	-3.0	0.725	0.070	0.603	None.	Pre-sent.		63988	Properly labelled.

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF MANITOBA—

1915.										
Jan. 25	Native Wine.	61226	E. Brotman & Son, Logan Ave., Winnipeg.	3 pts.	60	Stamford Park Wine Co., Niagara Falls.	.....	Gold Medal Port.	1.0564	0.9844
" 25	"	61227	Manitoba Liquor Store, 248 Logan Ave., Winnipeg.	3 "	40	"	.....	.....	1.0554	0.9842
" 25	"	61228	North West Liquor Store, 309 Logan Ave., Winnipeg.	3 "	75	"	.....	.....	1.0584	0.9833
" 25	"	61229	Winnipeg Wine Co., Main St., Winnipeg.	3 "	65	"	.....	.....	1.0552	0.9838
" 25	"	61230	Eagle Liquor Store, 175 Heney St., Winnipeg.	$\frac{1}{2}$ gall.	65	"	.....	.....	1.0570	0.9852
" 25	"	61231	Regal Wine Co., Ltd., 721 Main St., Winnipeg.	$\frac{1}{2}$ "	65	"	.....	.....	1.0339	0.9836
" 25	"	61232	T. D. Cavanagh, Ltd., Higgins Ave., Winnipeg.	$\frac{1}{2}$ "	65	"	.....	.....	1.0508	0.9855
" 25	"	61233	The Quality Liquor Store, 148 Higgins Ave., Winnipeg.	$\frac{1}{2}$ "	65	"	.....	.....	1.0532	0.9831
" 26	"	61234	Maple Leaf Wine Co., 324 Notre Dame Ave., Winnipeg.	$\frac{1}{2}$ "	65	"	.....	.....	1.0591	0.9846
" 26	"	61235	The City Liquor Store, 308 Notre Dame Ave., Winnipeg.	$\frac{1}{2}$ "	60	"	.....	.....	1.0227	0.9814

DISTRICT OF SASKATCHEWAN—

Jan. 30	Native Wine.	66329	Wm. Robertson, Regina.	3 pts.	40	T. G. Bright Niagara Falls.	.....	.....	1.0272	0.9800
" 30	"	66330	E. Foret, Regina.	3 "	75	"	.....	.....	1.0240	0.9813
" 30	"	66331	Regina Wholesale Liquor Co., Regina.	3 "	40	St. David Wine Grocers Co., Toronto.	.....	.....	1.0398	0.9820

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.													Remarks and Opinion of the Chief Analyst.		
Alcohol.			Grammes per 100cc.									Preservatives.		Dyes.	No. of Sample.
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.							
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.					

Remarks and Opinion of the Chief Analyst.

A. C. LARIVIÈRE, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.			
9.79	12.13	21.27	18.69	14.66	4.03	0.188	-17.2	0.666	0.036	0.621	Pre-sent.	None.	61226
9.93	12.31	21.57	18.48	14.66	3.82	0.224	-16.4	0.693	0.053	0.627	"	"	61227
10.62	13.15	23.04	19.50	15.48	4.02	0.188	-17.0	0.684	0.053	0.618	"	"	61228
10.23	12.68	22.22	18.53	15.48	3.05	0.180	-15.4	0.693	0.038	0.645	"	"	61229
9.21	11.44	20.04	18.63	16.10	2.53	0.228	-1.6	0.807	0.060	0.732	"	"	61230
10.38	12.87	22.55	19.43	9.68	0.75	0.220	-17.4	0.696	0.042	0.643	"	"	61231
9.00	11.17	19.58	16.94	14.25	2.60	0.156	-32.8	0.600	0.038	0.552	"	"	61232
10.77	13.34	23.37	18.19	14.05	4.14	0.204	-14.4	0.720	0.036	0.675	"	"	61233
9.64	11.96	20.96	19.34	14.30	5.04	0.180	-0.4	0.821	0.038	0.733	"	"	61234
12.08	14.93	26.17	19.69	6.78	4.11	0.260	-9.6	0.630	0.066	0.547	None	"	61235

L. H. HALL, INSPECTOR.

13.15	16.24	28.46	12.22	9.30	2.92	0.268	-10.4	0.574	0.048	0.514	None	Pre-sent	66329
12.16	15.02	26.33	11.05	8.49	2.56	0.284	-7.2	0.654	0.064	0.504	"	"	66330
11.62	14.37	25.18	14.98	13.24	1.74	0.200	-22.0	0.726	0.077	0.620	"	"	66331

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF SASKATCHEWAN—

1915.										
Jan. 30	Native Wine.	66332	H. M. Hillman, Regina.	3 pts.	75	Ont. Grape Growing Wine Mfrs. St. Catharines.			1.0741	0.9849
" 30	"	66333	Capital Wine Co., Regina.	3 "	65	T. G. Bright Co., Niagara Falls.			1.0289	0.9819
Feb. 1	"	66335	Gold Coin Liquor Store, Moosejaw.	3 "	50	St. David's Wine Growers Co., Toronto.			1.0461	0.9893
" 1	"	66336	E. B. R. Pragnell, Moosejaw.	3 "	25	"			1.0477	0.9861
" 1	"	66337	Moose Jaw Liquor Store, Moosejaw.	3 "	50	T. G. Bright Co., Niagara Falls.			1.0229	0.9809
" 1	"	66338	Western Commercial Co., Moosejaw.	3 "	75	St. David's Wine Growers Co., Moosejaw.			1.0484	0.9862
" 3	"	66346	Robinson & Walsh, Weyburn.	3 "	1.00	"			1.0420	0.9849

DISTRICT OF ALBERTA—

Mar. 11	Native Wine.	52075	H. R. Arnold, Red Deer.	3 pts.	15	Ont. Grape Growing & Wine Mfg. Co., St. Catharines.			1.0751	0.9849
" 12	"	52076	F. L. Smith Co., Lacombe.	3 "	75	St. David's Wine Growers, Toronto.			1.0331	0.9865
" 13	"	52077	Wetaskiwin Wine and Spirit Co., Wetaskiwin.	3 lots.	75	Niagara Falls Wine Co.			1.0238	0.9813
" 17	"	52078	Western Commercial Co., Calgary.	1 qt.	65	T. G. Bright & Co., Niagara Falls.			1.0306	0.9814
" 19	"	52079	"	1 "	65	J. W. Lee & Co., Toronto.			1.0459	0.9857
" 19	"	52080	E. W. Spence, Calgary.	1 "	75	Niagara Falls Wine Co.	Diamond		1.0222	0.9807

SESSIONAL PAPER No. 14
NATIVE WINE.

Results of Analysis.													Remarks and Opinion of the Chief Analyst.	
Alcohol.			Grammes per 100cc.									No. of Sample.		
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar. Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity.			Preservatives.			Dyes.
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.				

Concluded.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.				
9.43	11.70	20.50	23.20	20.57	2.63	0.188	-31.6	0.984	0.055	0.915	Pre- sent	None.	66332	
11.69	14.46	25.34	12.17	9.49	2.68	0.252	-11.6	0.609	0.057	0.538	None.	Pre- sent.	66333	
6.36	7.92	14.88	14.72	13.24	1.48	0.176	-24.4	0.810	0.055	0.736	Pre- sent.	"	66335	
8.57	10.65	18.65	15.97	13.44	2.53	0.228	-20.4	0.909	0.125	0.753	"	"	66336	
12.46	15.40	26.99	10.87	8.53	2.34	0.258	-21.8	0.621	0.048	0.561	None.	"	66337	
8.50	10.56	18.50	16.13	12.84	3.29	0.068	-21.6	0.879	0.144	0.699	Pre- sent.	None.	66338	
9.43	11.70	20.50	14.80	11.89	2.91	0.156	-20.4	3.720	0.077	0.624	"	"	66340	

A. W. R. MARKLEY, INSPECTOR.

9.43	11.70	20.50	23.46	15.99	7.47	0.228	-3.6	0.930	0.000	0.964	None	None.	52075	
8.29	10.30	18.04	12.06	11.74	0.32	0.200	-1.8	0.961	0.225	0.74	Pre- sent.	"	52076	
12.15	15.02	26.33	11.00	6.83	4.17	0.250	-7.1	0.690	0.046	0.632	None.	"	52077	
12.08	14.93	26.17	12.74	10.45	2.29	0.280	0.4	0.690	0.045	0.645	Pre- sent.	"	52078	
8.86	11.00	19.27	15.61	10.46	5.15	0.150	7.6	1.070	0.001	0.975	None.	Pre- sent.	52079	
12.69	15.88	27.31	10.74	10.31	0.13	0.250	2.0	0.711	0.000	0.625	"	"	52080	

7 GEORGE V, A. 1917

BULLETIN No, 316--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF ALBERTA

1915.										
Mar. 19	Native Wine.	52081	North west Supply Co., Calgary.	1 Qt.	60	Niagara Falls Wine Co.			1.0330	0.9819
" 19	"	52082	Diamond Liquor Store.	1 "	75	"			1.0272	0.9806
" 19	"	52083	J. A. Guttman, Calgary.	1 "	75	St. David's Wind Co., Toronto.			1.0488	0.9858
" 19	"	52084	The McMann's Liquor Co., Calgary.	1 "	60	Niagara Falls Wine Co.			1.0488	0.9860

DISTRICT OF ROCKY MOUNTAINS

Feb. 1	Native Wine.	61741	Nelson Wine Spirit Co., Nelson, B.C.	3 bots.	1 50	T. G. Bright Co., Niagara Falls.		One Diamond.	1.0348	0.9820
" 1	"	61742	" " " "	3 "	2 25	" " " "		Concord	1.0262	0.9804
" 1	"	61743	Hudsons Bay Co., Nelson, B.C.	3 "	1 50	" " " "		Concord	1.0281	0.9832
" 6	"	61751	Revelstoke Wine & Spirit Co., Revelstoke, B.C.	3 "	1 00	St. David's Wine Growers Co., Toronto.			1.0466	0.9851
" 15	"	61766	Western Wine & Liquor Co., Kamloops, B.C.	3 "	1 00	Stanford Park Wine Co., Niagara Falls.			1.0581	0.9846
" 15	"	61767	Hudsons Bay Co., Kamloops, B.C.	3 "	1 50		Hudsons Bay Co., Vancouver, B.C.		1.0274	0.9816
" 16	"	61783	Owens Family Liquor Store, Rossland, B.C.	3 "	2 25	Ont. Grape Growing & Wine Mfg. Co., St. Catharines.			1.0710	0.9851
" 16	"	61784	D. Thomas, Ltd., Rossland, B.C.	3 "	2 25	St. David's Wine Growers Co., Toronto.			1.0415	0.9852

SESSIONAL PAPER No. 14

NATIVE WINE,

Results of Analysis.													Remarks and Opinion of the Chief Analyst
Alcohol.			Grammes per 100cc							Preservatives.	Dyes.	No. of Sample.	
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 100 mm. tube Direct.	Acidity.					
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.			

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.			
11.69	14.46	25.34	13.21	10.43	2.78	0.268	- 1.0	0.696	0.053	0.630	None.	None.	52081
12.69	15.68	27.48	12.06	7.20	4.86	0.220	+ 0.6	0.716	0.043	0.663			52082
8.79	10.91	19.11	16.33	9.69	6.64	0.130	- 2.2	0.961	0.093	0.855	Pre-sent.		52083
8.64	10.73	18.81	16.28	2.68		0.120	+ 2.0	0.675	0.043	0.622		Pre-sent.	52084

THOMAS PARKER, INSPECTOR.

11.62	14.37	25.18	13.68	10.46	3.22	0.312	3.6	0.838	0.065	0.777	None.	Pre-sent.	61741	
12.85	15.86	27.81	11.86	7.25	4.61	0.156	- 1.6	0.660	0.038	0.612		None.	61742	
10.69	13.24	23.21	11.62	8.25	2.37	0.164	1.0	0.666	0.041	0.615			61743	Properly labelled
9.29	11.52	20.19	15.94	11.94	4.00	0.168	21.0	0.780	0.086	0.673	Pre-sent.	Pre-sent.	61751	
9.64	11.96	20.96	19.08	18.03	1.35	0.220	5.6	0.920	0.091	0.887		None.	61766	
11.92	14.74	25.83	11.86	7.49	4.37	0.220	0.6	0.588	0.057	0.513	None.		61767	Properly labelled.
9.29	11.52	20.19	22.33	21.09	1.24	0.260	15.0	0.888	0.064	0.808		Pre-sent.	61785	
9.21	11.44	20.04	14.59	9.64	0.95	0.200	1.0	0.815	0.110	0.676	Pre-sent.	None.	61784	

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF VANCOUVER—

1915.										
Jan. 21	Native Wine.	55168	Gold Seal Liquor Co., Ltd., 712 Pender St., Vancouver, B.C.	3 bots.	75	Stamford Park Wine Co., Niagara Falls.	.....	St. Elmo.	1·0465	0·9823
" 22	"	55169	A & B. Liquor Co., 659 Granville St., Vancouver, B.C.	3 "	75	St. David's Wine Growers Co., Toronto.	.....	.....	1·0276	0·9846
" 22	"	55170	Hudsons Bay Co., 670 Granville St., Vancouver, B.C.	3 "	75	Niagara Falls Wine Co.	.....	.....	1·0463	0·9825
" 22	"	55171	Hose & Brooks Co., Ltd., 504 Main St., Vancouver, B.C.	3 "	75	St. David's Wine Growers Co., Toronto.	.....	.....	1·0476	0·9861
" 22	"	55172	Hugh Bros., 105 Hastings St., E., Vancouver, B.C.	3 "	75	T. G. Bright Co., Niagara Falls.	.....	.....	1·0276	0·9815
" 22	"	55173	Crown Liquor Co., 6 Hastings St., E., Vancouver, B.C.	3 "	75	" " ..	.....	.....	1·0222	9·9808
" 22	"	55174	Universal Wine Co., 54 Cordova St., Vancouver B.C.	3 "	75	Niagara Falls Wine Co.	.....	.....	1·0232	0·9800
" 22	"	55175	B.C. Wine Co., 534 Pender St., W., Vancouver, B.C.	3 "	75	T. G. Bright Co., Niagara Falls.	.....	Princess Irma Brand.	1·0241	0·9833
" 23	"	55176	Maple Leaf Liquor Co., 831 Granville St., Vancouver, B.C.	3 "	75	Unknown ..	.....	.....	1·0621	0·9852
" 23	"	55177	Vancouver Wine & Spirit Co., Ltd., 1097 Granville St., Vancouver, B.C.	3 "	75	Stamford Park Wine Co., Niagara Falls.	.....	.....	1·0309	0·9822

DISTRICT OF VICTORIA—

Feb. 12	Native Wine.	62061	Dixie H. Ross, 1317 Government St., Victoria, B.C.	3 qts.	1·00	J. W. Lee, Co., Toronto.	.....	.....	1·0472	0·9661
" 12	"	62062	Victoria Liquor Co., Victoria, B.C.	3 "	1·00	Stamford Park Wine Co., Niagara Falls.	.....	.....	1·0432	0·9829
" 12	"	62065	H. O. Kirkham & Co., 741 Fort St., Victoria, B.C.	3 "	1·00	"	.....	.....	1·0443	0·9827

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.														No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100cc.									Preservatives.	Dyes.		
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity							
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.					
E. J. MORGAN, INSPECTOR.															
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.					
11.38	14.09	24.69	16.65	13.64	3.01	0.158	-17.0	0.795	0.067	0.711	Pre-sent.	None	55168	Properly labelled.	
9.64	11.96	20.96	11.13	9.10	2.13	0.212	-18.2	0.759	0.096	0.639	..	Pre-sent.	55169		
11.23	13.90	24.36	16.54	14.66	1.88	0.248	-19.6	0.714	0.041	0.663	..	None	55170		
8.57	10.65	18.65	15.94	12.64	3.30	0.212	-27.6	0.654	0.093	0.538	..	Pre-sent.	55171		
12.00	14.84	26.00	11.94	8.49	3.45	0.280	-12.6	0.615	0.057	0.544	None	None	55172		
12.54	15.49	27.15	10.71	7.58	3.13	0.280	-5.4	0.612	0.060	0.537	..	Pre-sent.	55173	Properly labelled	
13.15	16.24	28.46	11.18	8.77	2.41	0.264	-3.4	0.630	0.034	0.587	..	-	55174		
10.62	13.15	23.04	10.56	7.20	3.36	0.276	-9.6	0.825	0.149	0.639	..	None	55175	Properly labelled	
9.21	11.44	20.04	19.97	16.20	3.77	0.230	-23.4	0.735	0.082	0.633	..	Pre-sent.	55176		
11.46	14.18	24.85	12.61	8.87	3.74	0.244	-7.0	0.693	0.074	0.600	..	-	55177		
D. O'SULLIVAN, INSPECTOR.															
2.22	2.78	4.89	21.05	18.00	3.07	0.210	-14.3	0.660	0.117	0.514	Pre-sent.	None	62061	Properly labelled	
10.92	13.52	23.70	15.63	10.66	4.97	0.230	-23.8	0.636	0.031	0.652	-	-	62062		
11.08	13.71	24.03	15.97	12.04	3.33	0.188	-18.7	0.689	0.031	0.600	..	-	62063	Properly labelled	

7 GEORGE V, A. 1917

BULLETIN No. 316—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Specific Gravity.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Of Wine.	Of Distillate.

DISTRICT OF VICTORIA

1915.										
Feb. 22	Native Wine.	62067	Victoria & Vancouver Importing Co., 1624 Government st., Victoria, B.C.	3 qts.	1 00	.....	R. P. Rithet & Co., Victoria.	.....	1 0216	0 9817
" 22	"	62068	Hudson's Bay Co., 1312 Douglas st. Victoria, B.C.	3 "	1 00	.....	Hudson's Bay Co., Victoria, B.C.	.....	1 0441	0 9853
" 22	"	62070	B. C. Wine Co., 1216 Douglas st. Victoria, B.C.	3 "	1 00	.....	B.C. Wine Co., Vancouver.	.....	1 0242	0 9812
" 27	"	62077	Pither & Leiser, Ltd., Fort and Wharf sts., Victoria, B.C.	3 pts.	50	Niag'a Falls Wine Co.	.....	.....	1 0221	0 9818
" 27	"	62078	R. P. Rithet & Co., 1117 Wharf st., Victoria, B.C.	3 "	50	"	.....	.....	1 0413	0 9849
" 27	"	62079	Hudson's Bay Co., 1120 Wharf st., Victoria, B.C.	3 "	50	"	.....	.....	1 0275	0 9824

SESSIONAL PAPER No. 14

NATIVE WINE.

Results of Analysis.															No. of Sample.	Remarks and Opinion of the Chief Analyst.
Alcohol.			Grammes per 100 cc.									Preservatives.	Dyes.			
By Weight.	By Volume.	Proof Spirit.	Extract.	Reducing Sugar as Invert Sugar.	Non-Sugar Solids.	Ash.	Polarization in 200 mm. tube Direct.	Acidity								
								Total as Tartaric.	Volatile as Acetic.	Fixed as Tartaric.						
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.						
11.85	14.65	25.67	10.32	9.52	0.80	0.300	+ 3.6	0.657	0.638	0.614	None.	None.	62067	Properly labelled.		
9.14	11.35	19.89	15.24	11.99	3.25	0.156	- 8.4	0.685	0.088	0.565	Pre-sent.	"	62068			
12.23	15.12	26.49	11.13	6.40	4.73	0.180	- 1.0	0.717	0.055	0.649	None	Pre-sent.	62070			
11.77	14.56	25.51	10.43	8.18	1.25	0.288	- 1.0	0.678	0.038	0.630		None	62077			
9.43	11.70	20.50	14.61	10.17	4.44	0.210	- 9.6	0.699	0.084	0.614			62078			
11.31	13.99	24.52	11.68	10.70	0.98	0.280	- 1.6	0.666	0.065	0.585	Pre-sent.	"	62079			

Concluded.

SESSIONAL PAPER No. 14

APPENDIX H.

BULLETIN No. 317—FERTILIZERS, 1915.

OTTAWA, September 2, 1915.

J. U. VINCENT, Esq.,

Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report upon Fertilisers as found on the Canadian market during the current year.

Four hundred and twenty (420) samples have been analyzed, of which number three hundred and eighty-two (382) are found to meet their guarantee, and sixteen (16) others approximate closely to the guaranty, or contain compensating values in certain ingredients, so that I have ventured to advise their acceptance as satisfactory.

Eleven (11) samples were offered for sale without the registration number appearing on the package, thereby violating the provisions of section 7 of the Act. It is certain that, in some cases at least, this omission is not the fault of the manufacturer; and the vendor must be held to be responsible.

Eleven (11) samples fail to meet their guarantee, and are specially noted in the report. In three (3) of these cases the deficiency is in the potash content. This component is particularly difficult to obtain, from the fact that imports from Germany, whose mines practically supply the world's potash are inhibited through war conditions. It may be proper to bear this fact in mind; and it is noteworthy that manufacturers have, for the most part, reduced the guaranteed content of potash in mixed fertilisers.

I beg to recommend publication of this report as Bulletin No. 317.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1915.								
Apr. 7	Slag	64161	Nova Scotia Fert. Co., Halifax.	3 lbs.	Nil.	Staackman & Co., Anvers, Belgium.		
" 14	Bone Meal	64162	A. C. Melvin, & Co., Halifax.	3 "	"	Nova Scotia Fert. Co., Halifax.		
" 14	Ceres Superphosphate.	64163	" " "	3 "	"	"		
" 14	Acid phosphate.	64164	" " "	3 "	"	"		
" 14	High Grade	64165	" " "	3 "	"	"		
" 14	Potato Phosphate.	64166	" " "	3 "	"	"		
" 14	10% Potato Phosphate.	64167	" " "	3 "	"	"		
" 16	Ground Bone	64168	Halifax Seed Co., Halifax.	3 "	"	Lowell Fert. Co., Windsor.		
" 16	Potato Manure	64169	" " "	3 "	"	"		
" 16	Nitrate of Soda.	64170	" " "	3 "	"	Harab Davies Co.,	Steele, Briggs Seed Co., Toronto.	
" 22	Basic Slag, A Quality.	64171	Truro Market Ltd., Truro.	3 "	"	Cross Fert. Co., Sydney.		
" 23	Soluble Bone and Potash.	64172	J. R. Cooke, Bridgewater.	3 "	"	National Fert. Co., Boston.		
" 23	Market Garden Revised.	64173	" " "	3 "	"	"		
" 23	All Round Fertilizer.	64174	H. O. Bates, Bridgewater.	3 "	"	Bowker Fert. Co., Boston.		
" 23	Potato Phosphate.	64175	" " "	3 "	"	"		
" 26	Special 5-8-4	64176	Lowell Fert. Co., Windsor.	3 lbs.	Nil.	Vendors		
" 26	Special Potato and Vegetable 4-8-4.	64177	" " "	3 "	"	"		
" 26	Fish and Potash.	64178	Essex Fert. Co., Windsor.	3 "	"	"		
" 26	1-8-2	64179	" " "	3 "	"	"		
" 26	4½-8-4	64180	Colonial Fert. Co., Windsor.	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Potash.	Fineness.	No of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
971	As guaranteed As found	..... .....	..... .....	..... .....	12.0 13.98	2.0 1.98	14.0 15.96	12.0 13.98	..... .....	..... .....	64161	Meets guaranty.
44	As guaranteed As found	..... 2.88	3.0 3.5	..... .....	..... .....	..... .....	23.0 18.84	..... .....	..... .....	..... .....	64162	4% low in phosphoric acid.
1395	As guaranteed As found	1.64 2.76	2.0 3.35	5.0 5.73	2.0 0.47	2.0 0.55	9.0 6.75	7.0 6.20	1.0 7.40	..... .....	64163	Low in phosphoric acid, but much above guaranteed value. Pass.
1384	As guaranteed As found	..... .....	..... .....	..... .....	16.0 15.97	2.0 2.25	18.0 18.22	16.0 15.97	..... .....	..... .....	64164	Meets guaranty.
1396	As guaranteed As found	3.28 3.13	4.0 3.89	4.5 6.88	1.5 0.34	2.0 0.60	8.0 7.82	6.0 7.22	4.0 7.64	..... .....	64165	.....
1394	As guaranteed As found	1.64 2.90	2.0 3.52	5.0 6.98	2.0 0.31	2.0 0.64	9.0 7.93	7.0 7.29	0.50 3.66	..... .....	64166	.....
1391	As guaranteed As found	2.05 3.41	2.5 4.18	4.0 5.10	2.0 0.34	2.0 0.49	8.0 6.13	6.0 5.64	4.0 6.80	..... .....	64167	2% low in phosphoric acid, but much above guaranteed value. Pass.
807	As guaranteed As found	2.46 2.51	3.0 3.05	..... .....	..... .....	..... .....	23.0 28.25	..... .....	..... .....	..... .....	64168	Meets guaranty.
804	As guaranteed As found	1.64 1.66	2.0 2.02	3.0 6.10	4.0 1.49	1.0 0.74	8.0 8.33	7.0 7.59	4.0 3.59	..... .....	64169	.....
1282	As guaranteed As found	15.0 15.0	18.3 18.22	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	64170	.....
1067	As guaranteed As found	..... .....	..... .....	..... .....	10.0 10.13	4.0 2.50	14.0 12.65	10.0 10.13	..... .....	..... .....	64171	Nearly meets guaranty. Pass.
1178	As guaranteed As found	..... .....	..... .....	6.0 4.65	4.0 4.84	1.0 1.71	11.0 11.20	10.0 9.49	2.0 2.19	..... .....	64172	Meets guaranty.
1182	As guaranteed As found	2.47 2.53	3.0 3.10	4.0 4.0	4.69 4.69	1.41 1.41	10.10 8.60	8.60 3.08	..... .....	..... .....	64173	.....
1090	As guaranteed As found	2.47 2.49	3.0 3.03	4.0 4.55	4.0 3.69	1.0 1.14	9.0 9.68	8.0 8.24	3.0 3.34	..... .....	64174	.....
1092	As guaranteed As found	1.66 1.74	2.0 2.11	4.0 5.13	4.0 5.58	1.0 1.42	9.0 10.13	8.0 8.71	2.0 2.27	..... .....	64175	.....
1205	As guaranteed As found	4.10 4.33	5.0 5.28	4.0 6.48	4.0 1.61	1.0 0.64	9.0 8.73	8.0 8.09	4.0 3.98	..... .....	64176	.....
1207	As guaranteed As found	3.28 3.48	4.0 4.23	4.0 6.43	4.0 1.95	1.0 0.65	9.0 9.0	8.0 8.36	4.0 4.95	..... .....	64177	.....
792	As guaranteed As found	2.0 2.95	2.5 3.64	4.0 6.15	4.0 1.26	1.0 0.74	9.0 8.1	8.0 7.43	3.0 6.0	..... .....	64178	.....
1201	As guaranteed As found	0.82 1.40	1.0 1.70	4.0 6.40	4.0 1.0	1.0 1.0	9.0 8.40	8.0 7.40	3.0 5.38	..... .....	64179	.....
1175	As guaranteed As found	3.09 4.52	4.5 5.5	4.0 5.78	4.0 1.44	1.0 0.59	9.0 7.80	8.0 7.20	4.0 8.40	..... .....	64180	.....

R. J. WAUGH, INSPECTOR.

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cost.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1915.								
April 26	Grain and Grass.	64181	Colonial Fert. Co., Windsor.	3 lbs.	Nil.	Vendors.....		
" 26	Potato Special..	64182	Pigeon Fert. Co., Windsor.	3 "	"	"		
" 26	New England Ground Bone.	64183	New England Fert. Co., Windsor.	3 "	"	"		
" 26	Special Complete Root and Grain.	64184	Hants Co. Fruit and Produce Co., Ltd., Windsor.	3 "	"	National Fert. Co., Boston.		
" 26	Special Potato Phosphate.	64185	" " " "	3 "	"	"		
" 27	Square Brand...	64186	Burgess & Co., Wolfville.	3 "	"	Bowker Fert. Co., Boston.		
" 27	Stockbridge Manure.	64187	" " " "	3 "	"	"		
" 27	Sure Crop.....	64188	" " " "	3 "	"	"		
" 27	Ground Bone...	64189	" " " "	3 "	"	"		
" 27	Bradley's XL Superphosphate of Lime.	64190	" " " "	3 "	"	Amer. Agr. Chem. Co., New York.		
" 27	Bradley's Eclipse Phosphate.	64191	" " " "	3 "	"	"		
" 27	Pacific Guano...	64192	" " " "	3 "	"	"		
" 27	Read's Sure Catch.	64193	" " " "	3 "	"	"		
" 29	Fish, Bone and Potash.	64194	United Fruit Co., Kentville.	3 "	"	Baugh Sons Co., Baltimore.		
" 29	Acid Phosphate.	64195	" " " "	3 "	"	"		
" 29	Baugh's Ground Bone.	64196	" " " "	3 "	"	"		

DISTRICT OF NEW BRUNSWICK—

Mar.	8	Bowker's Potash Bone.	65914	D. J. Seely & Sons, St. John.	3 jars.	10	Bowker Fert. Co., Boston.	
"	8	Bowker's Fresh Ground Bone.	65915	" "	3 "	10	"	
"	8	Bowker's All Round Fertilizer.	65916	" "	3 "	10	"	
"	8	Bowker's Bone and Potash, Square Brand.	65917	" "	3 "	10	"	
"	8	Stockbridge General Crop Manure.	65918	" "	3 "	10	"	

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: Including that of Nitric Acid or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Soluble.	Total.	Total Available.				

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
766	As guaranteed	1 25	1 5	3 0	4 0	1 0	8 0	7 0	2 0	.....	64181	Meets guaranty.
	As found	3 79	4 60	5 85	0 83	0 57	7 25	6 68	3 48	.....	64182	"
1241	As guaranteed	2 46	3 0	4 0	4 0	1 0	9 0	8 0	4 0	.....	64183	3% below guaranty in phosphoric acid.
	As found	3 47	4 22	6 43	1 75	0 55	8 73	8 18	5 87	.....	64184	Meets guaranty.
819	As guaranteed	2 46	3 0	.....	.....	.....	23 0	.....	.....	.....	64185	"
	As found	2 79	3 39	.....	.....	.....	20 06	.....	.....	.....	64186	"
1186	As guaranteed	3 29	4 0	4 0	4 0	1 0	9 0	8 0	4 0	.....	64187	"
	As found	3 68	4 47	5 13	3 21	1 21	9 55	8 34	4 47	.....	64188	"
1180	As guaranteed	2 06	2 5	4 0	4 0	1 0	9 0	8 0	3 0	.....	64189	"
	As found	2 11	2 56	4 80	3 65	1 92	10 38	8 46	2 67	.....	64190	"
1091	As guaranteed	1 65	2 0	4 0	4 0	1 0	9 0	8 0	2 0	.....	64191	"
	As found	1 59	1 93	3 78	4 83	1 52	10 13	8 61	2 33	.....	64192	"
1089	As guaranteed	3 29	4 0	4 0	4 0	1 0	9 0	8 0	4 0	.....	64193	"
	As found	3 12	3 79	4 58	3 61	1 59	9 78	8 19	3 92	.....	64194	"
1083	As guaranteed	0 82	1 0	5 0	4 0	1 0	10 0	9 0	2 0	.....	64195	"
	As found	1 03	1 25	5 33	4 53	1 74	11 60	9 86	1 91	.....	64196	"
101	As guaranteed	2 47	3 0	.....	.....	.....	20 59	.....	.....	.....	64197	"
	As found	2 74	3 33	.....	.....	.....	23 97	.....	.....	.....	64198	"
1117	As guaranteed	2 06	2 5	4 0	4 0	1 0	9 0	8 0	1 5	.....	64199	"
	As found	2 02	2 40	5 05	3 0	1 90	9 95	8 05	1 63	.....	64200	"
4	As guaranteed	1 03	1 25	6 0	2 0	1 0	9 0	8 0	2 0	.....	64201	"
	As found	1 17	1 42	4 77	3 67	1 0	9 40	8 40	2 37	.....	64202	"
1130	As guaranteed	2 06	2 5	4 0	4 0	1 0	9 0	8 0	1 5	.....	64203	"
	As found	2 04	2 48	4 16	4 23	1 40	9 75	8 35	1 53	.....	64204	"
1127	As guaranteed	.....	.....	6 0	4 0	1 0	11 0	10 0	2 0	.....	64205	"
	As found	.....	.....	7 18	2 19	1 80	11 25	9 37	2 12	.....	64206	"
1061	As guaranteed	3 36	4 0	6 22	1 78	1 72	9 52	8 0	4 0	.....	64207	"
	As found	3 27	3 97	7 08	1 36	1 51	9 83	8 44	4 07	.....	64208	"
848	As guaranteed	.....	.....	.....	16 0	0 30	16 30	16 0	.....	.....	64209	"
	As found	.....	.....	.....	16 0	0 30	16 30	16 0	.....	.....	64210	"
1062	As guaranteed	1 87	2 28	.....	12 85	16 0	28 85	12 85	.....	.....	64211	"
	As found	2 57	3 12	.....	17 89	8 70	26 59	17 89	.....	.....	64212	"

J. C. FERGUSON, INSPECTOR.

1001	As guaranteed	0 82	1	4	4	1	9	8	1	.....	64213	Meets guaranty
	As found	0 99	1 20	4 98	3 68	1 45	10 69	8 68	1 95	.....	64214	"
1011	As guaranteed	2 47	3	.....	.....	.....	20 50	.....	.....	.....	64215	"
	As found	2 50	3 04	.....	.....	.....	20 30	.....	.....	.....	64216	"
1020	As guaranteed	2 47	3	4	4	1	9	8	3	.....	64217	"
	As found	2 71	3 33	4 23	3 56	1 17	8 83	7 75	3 29	.....	64218	"
1091	As guaranteed	1 63	2	4	4	1	9	8	2	.....	64219	"
	As found	1 91	2 32	3 86	4 72	1 31	10 68	8 57	2 19	.....	64220	"
1080	As guaranteed	3 29	4	4	4	1	9	8	4	.....	64221	"
	As found	3 48	4 23	4 72	3 90	1 37	10 65	8 66	3 57	.....	64222	"

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1915.								
Mar. 8	Bowker's Potato Phosphate.	65919	D.J. Seely & Sons, St. Johns.	3 jars.	10	Bowker Fert. Co., Boston.		
" 8	Bowker's Sure Crop Phosphate	65920	" " "	3 "	10	"		
" 11	Thomas Phosphate Powder	65921	The Anglo-Canadian Chem. Co., St. John.	3 "	10	Late H. E. Albert Chem. Works, London, Eng.		
" 11	Special Odourless Potato Phosphate.	65922	" " "	3 "	10	"		
" 17	Provincial No. 1 One-Eight-One	65923	Provincial Chem. Fert. Co., St. John.	3 "	10	Vendors		
" 17	Provincial No. 2 One-Nine-3.	65924	" " "	3 "	10	"		
" 17	Provincial No. 3 Two & half-Nine-One.	65925	" " "	3 "	10	"		
" 17	Provincial No. 4 Two-Nine-Three.	65926	" " "	3 "	10	"		
" 17	Provincial No. 5 Two-Eight-Four.	65927	" " "	3 "	10	"		
" 17	Provincial No. 6 Three-Nine-Four.	65928	" " "	3 "	10	"		
" 17	Provincial No. 7 Four-Nine-Four.	65929	" " "	3 "	10	"		
" 17	Provincial No. 8, Four and half-Nine-Four.	65930	Provincial Chem. Fert. Co., St. John.	3 jars.	10	"		
" 17	Provincial No. 9, Five-Nine Four.	65931	" " "	3 "	10	"		
" 23 4 8-4		65932	Dominion Fert. Co., Ltd., St. Stephen.	3 "	10	"		
" 23 5-8 4		65933	" " "	3 "	10	"		
" 23 4½-10 4		65934	" " "	3 "	10	"		
" 23 2-9-2		65935	" " "	3 "	10	"		
" 23 4½-9 3		65936	" " "	3 "	10	"		
" 23 1-8 2		65937	" " "	3 "	10	"		
" 23 3-8 3		65938	" " "	3 "	10	"		
" 23 4-8 3		65939	" " "	3 "	10	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total, including that of Nitric Acid or Ammonia if present	Total, calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
Continued.												
1092	As guaranteed	1.65	2	4	4	1	9	8	2		65919	Meets guaranty.
97	As found.....	1.74	2.12	3.30	4.98	1.47	9.75	8.28	1.97		65920	"
	As guaranteed	0.82	1	6	2	1	9	8	2		65921	"
1	As found.....	0.84	1.02	6.75	2.46	1.02	10.23	9.21	2.40		65922	"
	As guaranteed				12			15			65923	"
	As found				13.65			15.40				
142	As guaranteed	2					7		7		65924	Two per cent low in potash.
	As found.....	2.35	2.90				9.55		4.40		65925	
1098	As guaranteed	.8	1	5	2	1	8	7	1		65926	Meets guaranty
	As found.....	.90	1.09	6.10	1.91	1.04	9.05	8.01	1.19		65927	
1099	As guaranteed	.8	1	6	2	1	9	8	3		65928	"
1100	As found.....	.88	1.07	6.80	2.21	1.12	10.13	9.01	2.98		65929	"
	As guaranteed	2	2.5	6	3	1	10	9	1		65930	"
	As found.....	2.15	2.61	7	2.66	1.27	10.93	9.66	1.95		65931	
1101	As guaranteed	1.6	2	6	2	1	9	8	3		65932	
	As found.....	1.69	2.05	6.92	2.35	1.06	10.33	9.27	3.65		65933	
1102	As guaranteed	1.6	2	5	2	1	8	7	4		65934	
	As found.....	1.78	2.16	5.98	2.38	0.95	9.31	8.36	4.80		65935	
1103	As guaranteed	2.4	3	6	2	1	9	8	4		65936	
	As found.....	2.53	3.08	6.23	2.41	0.94	9.58	8.64	4.64		65937	
1104	As guaranteed	3.3	4	6	2	1	9	8	4		65938	
	As found.....	3.31	4.01	6.65	2.51	0.97	10.13	9.16	4.64		65939	
1105	As guaranteed	3.7	4.5	6	2	1	9	8	4		65940	
	As found.....	3.85	4.67	7.48	2.35	1.32	11.15	9.83	4.86		65941	
1106	As guaranteed	4.1	5	6	2	1	9	8	4		65942	
	As found.....	3.87	4.70	6.70	2.32	1.11	10.13	9.02	4.52		65943	
1103	As guaranteed	3.3	4	6	2	1	9	8	4		65944	
	As found.....	3.38	4.10	7.25	1.00	0.67	8.92	8.25	4.27		65945	
1107	As guaranteed	4.1	5	6	2	1	9	8	4		65946	
	As found.....	4.03	4.90	7.00	1.08	1.02	8.70	8.08	4.13		65947	
1106	As guaranteed	3.7	4.5	7	3	1	11	10	4		65948	
	As found.....	4.13	5.02	8.22	1.61	.92	10.75	9.83	4.16		65949	
1101	As guaranteed	1.6	2	7	2	1	10	9	2		65950	
	As found.....	1.92	2.34	7.33	1.76	0.81	9.90	9.09	2.43		65951	
1104	As guaranteed	3.7	4.5	7	2	1	10	9	3		65952	
	As found.....	3.97	4.82	7.35	1.43	.64	9.62	8.98	3.40		65953	
1100	As guaranteed	0.8	1	6	2	1	9	8	2		65954	
	As found.....	1.11	1.35	6.33	1.90	.79	9.02	8.23	2.18		65955	
1102	As guaranteed	2.5	3	6	2	1	9	8	3		65956	
	As found.....	2.53	3.08	6.92	1.10	.74	8.85	8.11	3.11		65957	
1105	As guaranteed	3.3	4	6	2	1	9	8	3		65958	
	As found.....	3.26	3.96	6.92	1.43	.65	8.98	8.35	3.11		65959	

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1915.								
Mar. 23	Bradley's Eclipse	65940	Hill Bros., St Stephen.	3 jars.	10	Amer. Agr. Chem. Co., New York.		
" 23	Bradley's XL Superphosphate of Lime.	65941	"	3 "	10	"		
" 23	Bradley's Special High Grade Fertilizers.	65942	"	3 "	10	"		
" 23	Bradley's Potato	65943	"	3 "	10	"		
April 8	Basic Slag, A Quality.	65944	Toombs & Son, Moncton.	3 jars.	10	Cross Fert. Co., Sydney.		
" 8	Potato Special	65945	"	3 "	10	Am. Agr. Chem. Co., N. York		
" 8	General Guano.	65946	"	3 "	10	"		
" 8	Fine Ground Bone.	65947	"	3 "	10	"		
" 22	Ground Bone...	65948	F. H. Everett, Fredericton.	3 "	15	Lowell Fert. Co., Windsor.		
" 22	Special Potato Phosphate.	65949	"	3 "	15	"		
" 22	Potato Manure.	65950	"	3 "	15	"		
" 22	New England Superphosphate	65951	Sansom & McNally, Fredericton.	3 "	15	New England Fert. Co., Windsor.		
" 22	New England Potato Manure	65952	"	3 "	15	"		
" 22	Peerless.....	65953	"	3 "	15	"		
" 23	Grass and Oats.	65954	Perley, Smith & Co., Woodstock.	3 "	Nil.	Am. Agr. Chem. Co., N. York		
" 24	Bradley's A. A Special Potato Grower.	65955	Porter Manzer, Ltd., Perth, N. B.	3 "	"	"		
" 24	Darling Special Blood Bone & Potash.	65956	"	3 "	"	"		

DISTRICT OF QUEBEC CITY—

Feb. 9	Havana Tobacco	56309	Eug. Julien & Cie, Quebec.	.....	.....	Amer. Agr. Chem. Co.		
" 9	Julien's Canadian Special.	56310	"	.....	.....	"
" 9	Canadian Potash	56311	"	.....	.....	"

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.						
		Total : including that Nitric Acid or Ammonia, if present.	Total : Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		

Continued.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
1115	As guaranteed	1 03	1 25	4	4	1	9	8	2	...	65946	Meets guaranty
	As found	1 09	1 32	4 10	4 42	1 20	9 72	8 52	2 47	...		
1117	As guaranteed	2 06	2 5	4	4	1	9	8	1 5	...	65941	"
	As found	2 29	2 78	4 58	4 23	1 52	10 33	8 81	1 73	...		
1123	As guaranteed	2 88	3 5	4	4	1	9	8	4	...	65942	"
	As found	3 04	3 70	4 72	4 60	1 20	10 52	9 32	4 50	...		
1134	As guaranteed	2 06	2 5	4	4	1	9	8	3	...	65943	"
	As found	2 28	2 77	4 50	4 36	1 47	10 33	8 86	3 11	...		
557	As guaranteed	...	...	...	12 8	...	...	...	...	...	65944	"
	As found	...	...	...	13 10	...	13 93	...	...	...
1129	As guaranteed	2 06	2 5	4	4	1	9	8	3	...	65945	"
	As found	2 07	2 52	4 35	4 23	1 14	9 72	8 58	3 77	...		
1135	As guaranteed	1 03	1 25	4	4	1	9	8	2	...	65946	"
	As found	1 19	1 45	5 60	4 63	1 35	11 58	10 23	2 24	...		
1139	As guaranteed	2 47	3	...	8 24	12 35	20 59	8 24	...	...	65947	"
	As found	2 56	3 11	...	15 52	7 38	22 90	15 52	...	...
807	As guaranteed	2 46	3	...	...	...	23 0	...	...	...	65948	"
	As found	2 46	3	...	...	...	27 41	...	...	...
1208	As guaranteed	2 46	3	4	4	1	9	8	4	...	65949	"
	As found	2 39	2 91	6 28	2 26	66	9 20	8 54	3 88	...		
804	As guaranteed	1 64	2	3	1	1	8	7	4	...	65950	"
	As found	1 71	2 08	5 35	2 44	54	8 33	7 79	3 63	...		
811	As guaranteed	2 46	3	4	4	1	9	8	3	...	65951	"
	As found	2 59	3 15	6 70	1 67	66	9 03	8 37	3 70	...		
814	As guaranteed	1 64	2	4	3	1	8	7	4	...	65952	"
	As found	1 67	2 03	5 43	2 10	50	8 03	7 53	3 60	...		
815	As guaranteed	0 82	1	4	3	1	8	7	1	...	65953	"
	As found	1 73	2 10	4 48	3 50	1 72	8 70	7 98	3 15	...		
1154	As guaranteed	...	...	7	4	1	12	11	2	...	65954	"
	As found	...	...	4 98	5 48	1 82	12 28	10 46	1 94	...		
1138	As guaranteed	3 77	4 5	6	4	1	11	10	4	...	65955	"
	As found	3 77	4 58	7 33	2 68	1 41	11 46	10 01	4 02	...		
1133	As guaranteed	4 11	5	5	4	1	10	9	4	...	65956	"
	As found	4 11	5	6 73	3 02	1 50	11 25	9 76	3 38	...		

F. X. W. E. BELAND, INSPECTOR.

680	As guaranteed	1 65	2 0	6 0	2 0	1 0	9 0	8 0	4 0	...	52006	Meets guaranty
	As found	1 37	1 70	1 82	6 48	0 76	9 63	8 77	3 66	...		
685	As guaranteed	1 65	2 0	6 0	2 0	1 0	9 0	8 0	3 0	...	56216	"
	As found	1 58	1 96	5 20	3 30	1 20	9 70	8 50	3 26	...		
335	As guaranteed	0 82	1 0	4 0	2 0	1 0	7 0	6 0	3 0	...	56114	"
	As found	0 84	1 0	3 58	4 89	0 30	8 77	8 47	3 31	...		

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (If not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC CITY—

1915.								
Feb.	9 Complete Manure.	56312	Eug. Julien & Cie. Quebec.	.....		Amer. Agr. Chem. Co.	.....
"	9 General Tobacco	56313	" " "	.....		" "	.....
"	9 Thomas Phosphate.	56314	" " "	.....		The Leeds Phosphate Wks., Buffalo	.....
"	9 Reliable.....	56315	" " "	.....		Amer. Agr. Chem. Co., Buffalo.	.....
"	11 Nitrate of Soda.	56316	J. B. Renaud & Cie, Quebec.	.....		British Oil & Cake Mills.	.....
"	11 Basic Phosphate.	56317	" " "	.....		Hickman Ltd., Bilston.	.....
"	11 Sulphate of Potash.	56318	" " "	.....		British Oil & Cake Mills.	.....
"	17 Superphosphate.	56319	F. Canac Marquis, Quebec.	.....		Vendors.....	.....
"	17 Guano du Globe.	56320	" " "	.....		" "	.....
"	17 Phosphate Quebec.	56321	" " "	.....		" "	.....
"	17 Montcalm....	56322	" " "	.....		" "	.....
"	17 Joliette.....	56323	" " "	.....		" "	.....
"	19 Virginia Tobacco XXX.	56324	P. T. Legare, Ltd. Quebec.	.....		Amer. Agr. Chem. Co.	.....
"	19 Complete Fertilizers.	56325	" " "	.....		" "	.....
"	19 Special Fruit and Vine.	56326	" " "	.....		" "	.....
"	19 Defiance.....	56327	" " "	.....		" "	.....
"	19 Thomas Phosphate.	56328	" " "	.....		Cross Fert. Co. Sydney.	.....
"	19 Legare's Special Corn.	56329	" " "	.....		Cap. Chem. Fert. Co., Buckingham	.....
Mar.	4 Capital.....	56501	G. Tanguay, Quebec.	.....		Vendors.....	.....
"	3 Monarch Guano	56502	" " "	.....		" "	.....
"	3 Royal Guano...	56503	" " "	.....		" "	.....
"	4 Nestor.....	56504	" " "	.....		" "	.....
"	4 Celtic.....	56505	" " "	.....		" "	.....
"	3 Nestor Guano...	56506	" " "	.....		" "	.....
"	3 Union Guano ..	56507	" " "	.....		" "	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Am- monia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
226	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	3.0	.....	56312	Meets guaranty
	As found.....	1.89	2.38	2.65	5.56	1.08	9.29	8.21	2.70	.....	56313	"
881	As guaranteed	0.82	1.0	4.0	1.0	1.0	6.0	5.0	7.0	.....	56314	"
	As found.....	1.02	1.27	4.96	0.29	1.0	6.25	5.25	6.80	.....	56315	"
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	75.0	.....	56316	"
	As found.....	.....	.....	.....	.....	.....	17.94	.....	80.0	.....	56317	"
880	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	3.0	.....	56318	"
	As found.....	0.63	0.78	1.08	4.41	0.74	6.23	5.49	3.27	.....	56319	"
273	As guaranteed	15.0	18.5	.....	.....	.....	.....	.....	.....	.....	56320	"
	As found.....	15.04	18.6	.....	.....	.....	.....	.....	.....	.....	56321	"
302	As guaranteed	.....	.....	.....	15.40	3.85	19.25	15.40	.....	85.0	56322	"
	As found.....	.....	.....	.....	15.70	.....	20.25	.....	.....	.....	56323	"
299	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48.0	.....	56324	"
	As found.....	.....	.....	.....	.....	.....	.....	.....	47.3	.....	56325	"
911	As guaranteed	0.82	1.0	6.0	1.0	1.0	8.0	7.0	2.0	.....	56326	"
	As found.....	1.55	1.93	2.22	7.32	4.48	14.02	9.54	3.05	.....	56327	"
912	As guaranteed	0.82	1.0	3.25	0.75	1.0	5.0	4.0	6.0	.....	56328	"
	As found.....	1.00	1.24	1.48	6.56	2.54	10.58	8.04	7.20	.....	56329	"
913	As guaranteed	1.65	2.0	6.75	1.25	1.0	9.0	8.0	3.0	.....	56330	"
	As found.....	1.32	1.64	3.55	7.88	2.66	11.09	11.43	4.87	.....	56331	"
914	As guaranteed	1.65	2.0	3.25	0.75	1.0	5.0	4.0	6.0	.....	56332	"
	As found.....	1.36	1.69	1.80	7.86	2.45	12.11	9.66	6.49	.....	56333	"
1107	As guaranteed	2.47	3.0	6.0	1.0	1.0	8.0	7.0	10.0	.....	56334	"
	As found.....	1.59	1.97	4.14	6.15	5.16	15.45	10.29	9.56	.....	56335	"
1222	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	3.0	.....	56336	"
	As found.....	1.52	1.89	4.06	4.35	1.27	9.68	8.41	2.90	.....	56337	"
1221	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	3.0	.....	56338	"
	As found.....	1.61	2.0	4.20	3.88	1.52	9.60	8.08	2.97	.....	56339	"
1227	As guaranteed	.....	3.0	.....	.....	.....	10.0	.....	3.0	.....	56340	"
	As found.....	2.41	3.0	6.79	3.87	1.46	12.12	10.66	2.82	.....	56341	"
1229	As guaranteed	.....	2.0	.....	.....	.....	8.0	.....	2.0	.....	56342	"
	As found.....	1.65	2.0	2.46	5.99	1.46	9.91	8.45	2.07	.....	56343	"
191	As guaranteed	.....	.....	.....	13.60	.....	17.00	.....	80.0	.....	56344	"
	As found.....	.....	.....	.....	15.15	.....	16.44	.....	85.0	.....	56345	"
933	As guaranteed	.....	1.0	.....	.....	.....	8.0	.....	2.0	.....	56346	"
	As found.....	1.46	1.80	.....	8.77	2.63	11.43	8.78	1.95	.....	56347	"
946	As guaranteed	.....	5.0	.....	.....	.....	8.0	.....	6.0	.....	56348	"
	As found.....	4.09	5.0	2.6	8.73	1.07	15.04	11.33	6.97	.....	56349	"
1403	As guaranteed	.....	3.5	.....	.....	.....	8.0	.....	2.0	.....	56350	"
	As found.....	3.90	4.80	4.2	3.95	1.25	9.6	8.35	2.92	.....	56351	"
1492	As guaranteed	.....	3.5	.....	.....	.....	9.0	.....	2.0	.....	56352	"
	As found.....	4.25	5.2	6.2	1.15	0.95	11.3	10.35	2.31	.....	56353	"
952	As guaranteed	.....	2.6	.....	.....	.....	8.0	.....	3.0	.....	56354	"
	As found.....	1.56	1.9	3.1	5.93	1.27	10.3	9.03	4.54	.....	56355	"
953	As guaranteed	.....	.....	.....	.....	.....	10.0	.....	5.0	.....	56356	"
	As found.....	.....	.....	3.45	7.50	0.8	11.75	10.95	6.2	.....	56357	"
1079	As guaranteed	.....	2.5	.....	.....	.....	10.0	.....	.....	.....	56358	"
	As found.....	2.65	3.3	8.6	3.33	0.97	12.9	11.93	.....	.....	56359	"
1078	As guaranteed	.....	3.5	.....	.....	.....	10.0	.....	.....	.....	56360	"
	As found.....	3.17	3.9	8.7	2.8	1.2	12.7	11.5	.....	.....	56361	"

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC CITY

1915.								
Mar.	3 Celtic Guano....	56508	Geo. Tanguay, Quebec.	.....	.....	Vendor.....	.....	.....
"	3 Star Guano.....	56509	" "	.....	.....	" .....	.....	.....
"	3 Superphosphate.	56510	" "	.....	.....	" .....	.....	.....
"	3 Banner.....	56511	" "	.....	.....	" .....	.....	.....
"	3 Potato Guano...	56512	" "	.....	.....	" .....	.....	.....
"	3 International Tobacco.....	56513	" "	.....	.....	" .....	.....	.....
"	4 General Phosphate Thomas.	56514	" "	.....	.....	" .....	.....	.....
"	4 Union Guano....	56515	" "	.....	.....	" .....	.....	.....
"	4 Grain Guano...	56516	" "	.....	.....	" .....	.....	.....

DISTRICT OF QUEBEC PROVINCE—

Feb.	17 Fertilizer.	2890	D. Audet, Ste. Mylachi.	.....	.....	E. Julien, Quebec.	.....	.....
"	17 "	2892	Dorchester Lumber, Ste. Malachi	.....	.....	" .....	.....	.....
"	23 Banner.....	3804	Lacasse and Audet, St. Edward.	.....	.....	.....	.....	.....
"	23 Celtic.....	3805	" "	.....	.....	.....	.....	.....
"	23 Fertilizer.....	3806	" "	.....	.....	Geo. Tanguay, Quebec.	.....	.....
"	23 Phosphate	3808	Philip Gregoire, Ste. Angel Beauce.	.....	.....	Bowker Fert. Co., Boston.	.....	.....
"	26 Complete Fertilizer.....	3813	P. Gagnon, Ste. Marie Beauce.	.....	.....	.....	.....	.....
Mar.	2 Fertilizer.....	3819	M. Larochelle, Ste. Germaine.	.....	.....	.....	P. T. Lagare, Quebec.	.....
"	10 Fertilizer.	3824	G. Doyon, Beauce.	.....	.....	.....	P. T. Lagare, Quebec.	.....
"	11 Muriate of Potash.	3825	A. Roy, St. Frederique.	.....	.....	.....	.....	.....
"	11 Fertilizer....	3826	" "	.....	.....	Nitrate Agency, New York.	.....	.....
"	12 Potato Phosphate.	3827	N. Plante, St. Frederique.	.....	.....	Bowker fert Co., Boston.	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total, including that of Nitric Acid or Ammonia if present.	Total, calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	Finesess.			
<i>Concluded</i>													
1075	As guaranteed	1.0	1.0	1.9	8.5	1.2	11.6	10.4	2.0	2.27	56508	Meets guaranty.	
	As found.....	1.18	1.5	8.5	3.53	1.07	13.1	12.03			56509	"	
1082	As guaranteed	2.0	2.0				10.0				56510	"	
	As found.....	2.03	2.5	8.5	3.53	1.07	13.1	12.03			56509	"	
958	As guaranteed			16.0		1.0	17.0	16.0			56510	"	
	As found.....			15.31	1.62	1.57	18.50	16.93			56510	"	
1081	As guaranteed		2.0				8.0		2.0		56511	"	
	As found.....	1.89	2.3	2.7	8.08	1.02	11.8	10.78	3.40		56511	"	
1076	As guaranteed		2.0				8.0		2.0		56512	"	
	As found.....	2.32	2.9	2.83	5.92	1.25	10.0	8.75	4.31		56512	"	
755	As guaranteed		2.0				8.0		4.0		56513	"	
	As found.....	2.19	2.7	0.34	8.75	0.85	9.94	9.09	5.63		56513	"	
1083	As guaranteed				14.0		16.0				56514	"	
	As found.....				15.8		16.19			81.00	56514	"	
945	As guaranteed		4.0				11.0				56515	"	
	As found.....	2.45	3.0	8.62	2.44	1.2	12.26	11.06			56515	"	
1080	As guaranteed		1.0				8.0		1.0		56516	"	
	As found.....	0.84	1.0	3.58	6.86	1.12	11.56	10.44	1.35		56516	"	

Concluded

J. E. AUDET, O. BROCHU, T. GENDRON, TEMPORARY INSPECTORS.

220	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	3.0	...	2890	Meets guaranty.
	As found	2.09	2.6	3.0	5.57	1.37	9.94	8.57	2.78	...	2891	"
253	As guaranteed	...	...	...	...	...	18.00	...	...	75.00	2892	"
	As found	...	...	...	...	...	19.19	...	...	85.50	2893	"
1081	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	...	3804	"
	As found	1.50	1.83	3.02	7.59	1.45	12.06	10.61	2.05	...	3805	"
1075	As guaranteed	0.85	1.0	6.0	2.0	1.0	9.0	8.0	2.0	...	3806	"
	As found	0.81	0.98	...	...	2.52	12.06	9.54	1.47	...	3807	"
1074	As guaranteed	...	...	...	15.75	1.25	17.00	...	...	80.00	3808	2.75 p.c. below guaranty in phosphoric acid
	As found	...	...	...	13.75	...	14.25	...	...	...	3809	"
1093	As guaranteed	0.82	1.0	5.0	4.0	1.0	10.0	9.0	2.0	...	3810	"
	As found	0.96	1.2	4.98	4.34	1.05	10.87	9.32	2.00	...	3811	Meets guaranty.
1221	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0	...	3812	"
	As found	1.70	2.0	5.48	3.66	1.37	10.5	9.13	3.24	...	3813	"
1227	As guaranteed	2.47	3.0	6.0	4.0	1.0	11.0	10.0	3.0	...	3814	"
	As found	2.39	2.90	8.0	4.80	1.52	13.98	12.80	3.05	...	3815	"
1220	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0	...	3816	"
	As found	1.41	1.7	1.72	6.26	0.9	8.88	7.98	2.20	...	3817	"
968	As guaranteed	...	...	...	...	...	...	...	...	...	3818	"
	As found	...	...	...	...	...	...	...	...	...	3819	"
250	As guaranteed	...	...	...	...	2.2	18.10	14.0	...	...	3820	"
	As found	...	...	...	...	...	15.90	...	...	...	3821	"
1192	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	2.0	...	3822	"
	As found	1.68	2.0	4.7	4.19	1.07	10.56	8.89	3.14	...	3823	"

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC PROVINCE—

1915.								
Mar. 4	Superphosphate with Potash.	3842	J. Nadeau, St. Severin.			Bowker fert Co., Boston.		
" 4	Potash.	3844	S. Vachon, St. Elzear.				E. Julien, Quebec.	
" 9	Thomas Phosphate.	3529	J. A. Bélanger, St. Lazare.	3 lbs.	10		P. T. Legare, Quebec.	
" 9	Complete.	3530	" "	3 "	10		" "	
" 9	"	3532	Philibert Laval, Burland.	3 "	10		" "	
" 10	Phosphate Lime.	3533	L. P. Bolduc, Ste. Sabine.	3 "	10		E. Julien, Quebec.	
" 16	Complete.	3534	George Roy, St. Raphael.	3 "	10		P. T. Legare,	
" 17	Acne Fertilizer.	3537	J. R. Laflamme, St. Gervais.	3 "	10	Lesage Packing Co. Montreal.		
" 18	Thomas Phosphate.	3538	Alphonse Dion, Houlleur.	3 "	10	Geo. Tanguay, Quebec.		
" 18	International	3539	" "	3 "	10	" "		
" 20	Union	3540	Protas Isabelle, Armagh.	3 "	10	Geo. Tanguay, Quebec.		
" 20	Nestor	3541	" "	3 "	10	" "		
" 9	Fertilizer	2748	J. P. Guay Montmagny.	3 "	10		P. T. Lagare, Quebec.	
" 9	Basic Slag	2749	" "	3 "	10		" "	
" 9	Thomas Phosphate Flour.	2750	Arcadius Caron, Montmagny.	3 "	Nil.	Leeds Phosphate Works.		
" 11	Phosphate	2752	Joseph L'Abbe, Cap St. Ignace.	3 "	Nil.	Alex. Cross & Sons, Glasgow, Scot.		

DISTRICT OF THREE RIVERS—

March 4	Michigan Corbon Complete.	3927	Simon Forest, L'Epiphanie.	3 lbs.	15			
" 4	Michigan Corbon Virginia Tobacco.	3928	Adrien Taillon, L'Epiphanie.	3 "	15			
" 5	Michigan Corbon Complete	3929	Albert Dostales, Grand Cote.	3 "	15			
" 6	Michigan Corbon Virginia Tobacco.	3930	Omar Dostales, Berthier.	3 "	15			
" 8	N. W. Reliable.	3964	Hormisdas Henry, St. Lin.	3 "	15			

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid, per cent.						
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
99	As guaranteed	.....	.....	6 0	4 0	1 0	11 0	10 0	2 0	3842	Meets guaranty.
335	As found	.....	.....	6 0	4 87	1 57	12 44	10 87	1 97	3844	Nearly 3% low in potash.
	As guaranteed	0 82	1 0	4 0	2 0	1 0	7 0	6 0	6 0		
	As found	0 89	1 0	3 32	5 14	1 22	9 68	8 46	3 15	3529	Meets guarantee
591	As guaranteed	.....	.....	.....	13 60	.....	.....	.....	.....
	As found	.....	.....	.....	13 75	.....	.....	.....	.....	3530	"
1228	As guaranteed	1 75	2 0	.....	8 0	.....	8 0	8 0	3 0		
	As found	1 94	2 4	2 94	5 61	2 77	11 32	8 55	4 15	3532	"
929	As guaranteed	.....	2 0	.....	.....	.....	9 0	8 0	4 0		
	As found	1 58	1 95	.....	.....	2 67	9 94	7 27	4 23	3533	"
253	As guaranteed	.....	.....	.....	.....	.....	13 0	.....	.....
	As found	.....	.....	.....	.....	.....	19 19	.....	.....	3534	"
1228	As guaranteed	1 75	2 0	.....	3 0	.....	8 0	8 0	3 0		
	As found	1 94	2 4	.....	6 52	2 67	9 19	6 52	3 96	3537	"
1084	As guaranteed	1 65	2 0	5 0	.....	1 0	6 0	5 0	.....	
	As found	1 55	1 94	3 8	4 53	0 42	8 75	8 33	.....	
1074	As guaranteed	.....	.....	.....	15 75	1 25	1 0	.....	80 00	3538	2 5% low in phosphoric acid.
	As found	.....	.....	.....	13 95	.....	14 31	.....	82 00	3539	2% low in phosphoric acid, nearly meets value guaranteed. Pass.
1089	As guaranteed	0 85	1 0	6 0	2 0	1 0	9 0	8 0	1 0		
	As found	1 00	1 24	2 04	4 46	0 5	7 0	6 5	1 22		
945	As guaranteed	2 49	3 0	4 0	2 0	1 0	7 0	6 0	3 5	3540	Meets guaranty.
	As found	1 76	2 1	.....	.....	0 57	8 94	8 37	4 45		
1079	As guaranteed	2 47	3 0	8 0	2 0	1 0	11 0	10 0	.....	3541	"
	As found	2 26	2 8	9 24	3 86	1 27	14 37	13 1	.....	
206	As guaranteed	1 65	2 0	6 0	2 0	1 0	9 0	8 0	4 0	2748	"
	As found	1 77	2 2	4 34	4 99	1 45	11 38	9 93	4 54		
591	As guaranteed	.....	.....	.....	13 60	.....	.....	.....	.....	2749	"
	As found	.....	.....	.....	13 90	.....	.....	.....	.....
253	As guaranteed	.....	.....	.....	.....	.....	18 0	.....	.....	2750	"
	As found	.....	.....	.....	.....	.....	18 12	.....	.....
335	As guaranteed	0 82	1 0	4 0	2 0	1 0	7 0	6 0	6 0	2752	"
	As found	0 83	1 0	6 0	2 56	2 07	10 63	8 56	7 44		

DR. V. P. LAVALLEE, INSPECTOR.

1221	As guaranteed	1 65	2	4	4	1	0	8	3	3927	Meets guaranty
	As found	1 68	2 00	4 62	4 33	1 3	10 25	8 36	2 97		
1225	As guaranteed	2 06	2 5	4	4	1	9	8	3	3928	"
	As found	1 55	1 34	4 90	3 46	1 27	9 63	8 36	2 90		
206	As guaranteed	1 65	2	6	2	1	0	8	4	3929	"
	As found	1 87	2 3	4 62	4 57	1 27	10 43	9 19	3 94		
1222	As guaranteed	1 65	2	4	4	1	0	8	3	3930	"
	As found	1 81	2 26	4 46	3 84	1 20	9 50	8 30	4 15		
880	As guaranteed	0 82	1	3	1	1	5	4	6	3964	
	As found	0 86	1 07	0 7	4 21	1 22	6 13	4 91	7 34		

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF THREE RIVERS—

1915.								
Mar. 8	Victor.....	3965	Monahan Bros., St. Lin.	3 lbs.	15	.....	.....	.....
" 9	Guano	3966	Ulric Beaudoin, St. Julienne.	3 "	15	F. C. Marquis, Quebec.	.....	.....
" 10	Montcalm.	3967	" ..	3 "	15	" ..	.....	.....
" 11	Fertilizer Harab Davies.	3968	Gravel & Beadry, Joliette.	3 "	15	Ont. Fert. Co., West Toronto.	.....	.....
" 11	Tobacco Special.	3969	" ..	3 "	15	" ..	.....	.....
" 11	Fertilizer.....	3970	" ..	3 "	15	" ..	.....	.....
" 12	International Tobacco.	3971	Cyriac Roy, St. Thomas de Joliette.	3 "	20	Geo. Tanguay, Quebec.	.....	.....
" 12	Celtic Guano...	3972	" ..	3 "	20	" ..	.....	.....
" 12	Union Guano...	3973	" ..	3 "	20	" ..	.....	.....
" 15	Fertilizer Joliette.	3975	I. E. Dupuis Ruisseau, St. George.	3 "	20	F. C. Marquis, Quebec.	.....	.....
" 16	Phosphate Quebec.	3979	D. Dupuis & Fils, Ruisseau St. George.	3 "	20	F. C. Marquis, Quebec.	.....	.....
" 17	Superphosphate.	3981	D. Levesque, Ruisseau Vacher.	3 "	20	Geo. Tanguay, Quebec.	.....	.....
" 19	All Crop Fertilizer.	3984	D. Dupuis & Fils, Ruisseau St. George.	3 "	20	Amer. Agr. Chem. Co., New York.	.....	.....
" 19	Champion Phosphate.	3985	" ..	3 "	20	" ..	.....	.....
" 19	Corn, Wheat and Rye.	3986	" ..	3 "	20	" ..	.....	.....
" 19	High Grade Farmer's Friend Superphosphate.	3987	" ..	3 "	20	" ..	.....	.....
" 19	Vegetable and Vine.	3988	" ..	3 "	20	" ..	.....	.....
" 23	Sulphate of Potash.	3992	Hildaige St. George, Joliette.	3 "	25	Kali Syndicate, Berlin, Germany.	.....	.....
" 23	Acid Phosphate	3993	" ..	3 "	25	Nitrate Agencies, New York.	.....	.....
" 23	Nitrate of Soda.	3994	" ..	3 "	25	" ..	.....	.....
April 1	Jupiter Guano..	3995	S. Vessot, Joliette	3 "	20	Geo. Tanguay, Quebec.	.....	.....

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

83	As guaranteed	p. c.	p. c.	p. c.	d. c.	p. c.	p. c.	p. c.	p. c.	p. c.	3965	Meets guaranty.
	As found	1 36	1 70	.....	.....	.....	9 88	.....	3 42	.....	
912	As guaranteed	0 82	1	3 25	0 75	1	5	4	6	.....	3966	Nearly meets guaranty.
	As found	1 39	1 72	2 40	5 06	1 85	9 31	7 46	4 91	.....		Pass.
914	As guaranteed	1 65	2	3 25	0 75	1	5	4	6	.....	3967	"
	As found	1 56	1 94	2 44	6 25	2 5	11 19	8 69	4 58	.....	
1269	As guaranteed	4 9	6	2	5	1	8	7	3	.....	3968	Three per cent low in nitrogen.
	As found	1 98	2	0 42	8 76	3 32	12 50	9 18	3 36	.....		Claim a mistake in tagging.
1407	As guaranteed	1 60	2	5	3	1	9	8	3	.....	3969	Meets guaranty.
	As found	3 20	3 97	1 52	8 38	2 05	11 75	9 70	3 86	.....	
1281	As guaranteed	.....	.....	14	.....	1	15 0	14	.....	.....	3970	"
	As found	.....	.....	2 48	14 99	2 22	19 69	17 47	.....	.....
955	As guaranteed	1 65	2	4	2	1	7	6	4	.....	3971	One per cent low in potash, value compensated.
	As found	2 44	3 0	3 42	8 08	1 0	12 5	11 5	2 89	.....		Pass.
1075	As guaranteed	0 85	1	6	2	1	9	8	2	.....	3972	Meets guaranty.
	As found	1 08	1 3	4 42	3 68	1 20	9 30	8 10	1 31	.....	
1078	As guaranteed	3 29	4	7	3	1	11	10	.....	.....	3973	"
	As found	2 65	3 3	4 6	4 74	1 47	10 81	9 34	.....	.....
1107	As guaranteed	2 47	3	6	1	1	8	7	10	.....	3975	Three per cent low in potash, compensated value.
	As found	2 27	2 8	4 44	8 39	2 80	15 63	12 83	7 18	.....		Pass.
913	As guaranteed	1 65	2 0	6 75	1 25	1 0	9 0	8 0	3 0	.....	3979	Meets guaranty.
	As found	1 87	2 3	1 70	6 84	3 65	12 19	8 54	3 63	.....	
958	As guaranteed	.....	.....	16 0	.....	1 0	17 0	16 0	.....	.....	3981	Meets guaranty.
	As found	.....	.....	17 02	.....	1 20	18 22	17 02	.....	.....
1349	As guaranteed	0 82	1 0	5 0	4 0	1 0	10 0	9 0	3 0	.....	3984	Meets guaranty.
	As found	0 84	1 0	7 0	2 57	1 12	10 69	9 57	3 01	.....	
1345	As guaranteed	.....	.....	6 0	4 0	1 0	11 0	10 0	2 0	.....	3985	Meets guaranty.
	As found	.....	.....	9 46	0 31	1 42	11 19	9 77	2 49	.....	
1350	As guaranteed	1 65	2 0	4 0	4 0	1 0	9 0	8 0	3 0	.....	3986	Meets guaranty.
	As found	1 68	2 1	6 14	3 68	0 72	9 54	9 22	3 01	.....	
1353	As guaranteed	3 29	4 0	6 0	4 0	1 0	11 0	10 0	3 0	.....	3987	Meets guaranty.
	As found	2 88	3 60	7 60	3 40	0 87	11 92	11 06	2 81	.....	
1352	As guaranteed	2 47	3 0	4 0	4 0	1 0	9 0	8 0	3 0	.....	3988	Meets guaranty.
	As found	2 58	3 2	6 56	3 15	0 76	10 38	9 71	2 45	.....	
692	As guaranteed	.....	.....	.....	.....	.....	.....	.....	47 0	.....	3989	Meets guaranty.
	As found	.....	.....	.....	.....	.....	.....	.....	48 5	.....	
970	As guaranteed	.....	.....	16 0	.....	1 0	17 0	16 0	.....	.....	3990	Meets guaranty.
	As found	.....	.....	17 02	0 94	1 57	20 13	18 56	.....	.....
235	As guaranteed	15 0	.....	.....	.....	.....	.....	.....	.....	.....	3991	Meets guaranty.
	As found	15 4	19 1	.....	.....	.....	.....	.....	.....	.....
1401	As guaranteed	3 74	4 0	6 0	3 0	1 0	10 0	9 0	3 0	.....	3993	Nearly meets guaranty.
	As found	2 18	.....	3 90	4 02	0 77	8 60	7 92	2 11	.....		Pass.

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF THREE RIVERS—

1915.								
April 6	Reliable.....	67903	Ludger Beauregard, Joliette.	3 lbs.	20	.....	E. Julien, Quebec.	.....
" 7	Thomas Phosphate.	67904	Napoleon Gaudet, St. Liguori.	3 "	20	.....	Nap. Rivest	.....
" 7	Farm and Garden Phosphate.	67905	" " "	3 "	20	Bowker's Fert. Co., Boston.	.....	.....
" 10	Special Golden Harvest.	67914	Odilon Lachapelle, St. Liguori.	3 "	20	" "	.....	.....
" 20	Virginia Tobacco.	67931	Alexis Malhiot, Montcalm.	3 "	20	Mich. Fert. Co., Buffalo.	.....	.....
" 26	Guano de Golfe	67941	Zotique Beaudoin, St. Alexis.	3 "	20	F. C. Marquis, Quebec.	.....	.....

DISTRICT OF MONTREAL—

Apr. 13	Vegetable and Potato.	67101	Montreal Abbatoirs, Montreal.	3 jars.	Nil.	Vendor.....	.....	.....
" 13	Special Potato Manure.	67102	" " "	3 "	"	"	.....	.....
" 13	Sure Grower....	67103	" " "	3 "	"	"	.....	.....
" 13	Bone Meal....	67104	" " "	3 "	"	"	.....	.....
" 13	Vegetable Grower.	67105	" " "	3 "	"	"	.....	.....
" 13	Corn and Cereal Special.	67106	" " "	3 "	"	"	.....	.....
" 16	Basic Slag, A Quality.	67108	The Wm. Ewing Co., Montreal.	3 "	"	The Cross Fert. Co.	.....	.....
" 16	Tobacco and Potato.	67109	" " "	3 "	"	Gunnis	.....	.....
" 16	Acid Phosphate.	67110	Dupuy & Ferguson, Montreal.	3 "	"	"	.....	No reg. No. or tags on bags.
" 16	General Crop...	67111	" " "	3 "	"	"	.....	"
" 16	Potato Manure.	67112	" " "	3 "	"	"	.....	"
" 20	Guano du Golfe.	67113	Hector L. Devy, Montreal.	3 "	"	F. C. Marquis, Quebec.	.....	.....
" 20	Superphosphate.	67114	" " "	3 "	"	"	.....	.....
" 21	Acme.....	67115	Wm. Rennie Co., Ltd., Montreal.	3 "	"	Lesage Packing and Fert. Co.	.....	.....
Apr. 21	Crockers New General Crop.	67116	Le Pailleur & Frere, Lachine.	3 jars.	Nil.	Crockers, Buffalo, N. Y.	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.	Phosphoric Acid per cent.							
			Total, including that of Nitric Acid or Ammonia if present	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.		
								Potash.		
								Finesse.		

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
1306	As guaranteed	0.82	1.0	3.0	3.0	1.0	7.0	6.0	3.0	.....	67903 Meets guaranty.
	As found.....	0.74	0.98	3.42	3.48	1.60	8.50	6.90	3.55	.....
253	As guaranteed	.....	.....	.....	.....	.....	18.0	.....	.....	.....	67904 Meets guaranty.
	As found.....	.....	.....	.....	.....	.....	19.37	.....	.....	.....
410	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	67905 Meets guaranty.
	As found.....	1.66	2.02	5.12	3.68	2.07	10.87	8.80	2.11	.....
1375	As guaranteed	.....	.....	8.0	4.0	1.0	13.0	12.0	2.0	.....	67914 Meets guaranty.
	As found.....	.....	.....	9.20	4.58	2.15	15.93	13.78	2.55	.....
297	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	3.0	.....	67931 Meets guaranty.
	As found.....	1.87	2.30	7.52	1.69	1.17	10.38	9.21	3.69	.....
912	As guaranteed	0.82	1.0	3.25	0.75	1.0	5.0	4.0	6.0	.....	67941 Meets guaranty.
	As found.....	1.26	1.56	1.04	6.17	1.60	8.81	7.20	5.0	.....

D. J. KEARNEY, INSPECTOR.

1108	As guaranteed	0.82	1.0	.....	8.0	2.0	10.0	8.0	3.0	.....	67101 Meets guaranty.
	As found.....	1.75	2.2	.....	11.87	1.32	13.19	11.87	3.48	.....
556	As guaranteed	.....	1.0	.....	.....	.....	.....	8.0	5.0	.....	67102
	As found.....	1.73	2.2	.....	.....	1.85	13.50	11.65	5.58	.....
551	As guaranteed	.....	1.0	.....	.....	.....	.....	8.0	1.0	.....	67103
	As found.....	2.33	2.9	.....	.....	1.27	14.0	12.73	1.49	.....
1044	As guaranteed	1.64	2.0	.....	10.0	10.0	20.0	10.0	.....	.....	67104
	As found.....	2.97	3.8	.....	.....	7.17	23.62	16.45	.....	.....
553	As guaranteed	.....	4.0	.....	.....	.....	.....	6.0	8.0	.....	67105
	As found.....	2.94	3.7	.....	.....	2.82	12.87	10.05	8.21	.....
552	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	2.0	.....	67106
	As found.....	2.70	3.3	.....	.....	1.07	13.25	12.18	2.07	.....
557	As guaranteed	.....	.....	.....	12.80	.....	.....	.....	.....	.....	67108
	As found.....	.....	.....	.....	13.05	.....	.....	.....	.....	.....
130	As guaranteed	.....	4.0	.....	.....	.....	.....	7.0	3.0	.....	67109
	As found.....	3.31	4.03	5.06	2.23	0.52	7.81	7.29	3.13	.....
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	67110 Sold without registration number.
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	67111
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	67112
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
912	As guaranteed	0.82	1.0	3.25	0.75	1.0	5.0	4.0	6.0	.....	67113 Meets guaranty.
	As found.....	1.65	2.0	4.62	7.10	1.47	13.19	11.72	5.45	.....
911	As guaranteed	0.82	1.0	6.0	1.0	1.0	8.0	7.0	2.0	.....	67114
	As found.....	1.71	2.1	4.64	8.34	2.52	15.50	12.98	2.16	.....
1084	As guaranteed	1.65	2.0	5.0	.....	1.0	6.0	.....	.....	.....	67115
	As found.....	1.52	1.89	5.14	3.69	0.98	9.18	8.23	.....	.....
1298	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	1.0	.....	67116
	As found.....	0.84	1.0	2.86	5.99	1.66	10.50	8.85	1.06	.....

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VALLEYFIELD—								
1915.								
Mar. 5	Legare Special Grain.	62860	Joseph Pigeon, Sweetsburgh.	3 jars.	Nil.	Capelton Chem. Fert. Co., Buckingham.		
" 5	Dom. 2-9-2.....	62861	W. J. Lee, Sweetsburgh.	3 "	"	Dom. Fert. Co.		
" 5	" 5-8-4.....	62862	" "	3 "	"	"		
" 5	Potato Phosphate.	62863	C. M. Beattie, Sweetsburgh.	3 "	"	Bowker's Fert. Co.		
" 9	Fertilizer.....	62864	F. H. McKeough, Hemmingford.	3 "	"	Read's Fert. Co.		
" 9	"	62865	" "	3 "	"	"		
" 9	Special C. & C..	62866	J. C. McKay, Hemmingford.	3 "	"	Montreal Abattoirs, Ltd.		
" 9	Empres.....	62867	G. W. Keddy, Hemmingford.	3 "	"	Lowell Fert. Co.		
" 9	Potato Manure	62868	" "	3 "	"	"		
" 10	Vegetable and Potato.	62869	J. E. Berthiaume, Bedford.	3 "	"	Montreal Abattoirs, Ltd.		
" 15	Farm Garden...	62871	Norman Brooks, Franklin Centre.	3 "	"	Bowker's Fert. Co.		No tags on bags at time of taking sample.
Mar. 15	Sure Crop	62872	Norman Brooks, Franklin Centre.	3 "	"	Bowker Fert. Co.		No tags on bags at time of taking sample.
" 15	All Crop.....	62873	W.B. Coulter, Anderson Corners.	3 "	"	Read Fert. Co.		
" 15	Special Corn, Wheat and Rye.	62874	" "	3 "	"	"		
" 15	Farmer's Reliable.	62875	" "	3 "	"	"		
" 15	Pioneer	62876	" "	3 "	"	"		
" 24	Monarch	62877	Capelton Chem. & Fert. Co., Buckingham.	3 "	"	Vendors.....		
" 24	Special Corn....	62878	" "	3 "	"	"		
" 24	Complete XXX.	62879	" "	3 "	"	"		
" 24	Royal Canadian.	62880	" "	3 "	"	"		
" 24	Corn Special....	62881	" "	3 "	"	"		

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

J. J. COSTIGAN, ACTING INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
989	As guaranteed	1.75	2.0	6.0	2.6	.....	8.0	8.0	2.0	.....	62860	Meets guaranty.
	As found.....	1.29	1.6	4.54	4.82	3.27	12.63	9.36	1.93	.....	
1161	As guaranteed	1.6	2.0	7.0	2.6	1.0	10.0	9.0	2.0	.....	62861	"
	As found.....	1.73	2.15	3.94	5.93	1.43	11.40	9.97	2.20	.....	
1167	As guaranteed	4.1	5.0	6.0	2.0	1.0	9.0	8.0	4.0	.....	62862	"
	As found.....	4.08	5.07	5.50	3.30	0.47	9.30	8.83	3.56	.....	
1092	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	2.0	.....	62863	"
	As found.....	1.80	2.24	4.00	5.15	1.40	10.55	9.15	2.47	.....	
1368	As guaranteed	0.82	1.0	5.0	4.0	1.0	10.0	9.0	3.0	.....	62864	"
	As found.....	0.98	1.22	4.04	5.31	1.65	11.00	9.35	3.16	.....	
1366	As guaranteed	.....	.....	8.0	4.0	1.0	13.0	12.0	2.0	.....	62865	"
	As found.....	.....	.....	7.30	4.70	1.60	13.60	12.00	1.80	.....	
552	As guaranteed	.....	2.0	.....	.....	.....	.....	8.0	2.0	.....	62866	"
	As found.....	3.0	3.8	.....	.....	2.35	13.06	10.71	2.47	.....	
802	As guaranteed	1.24	1.50	4.0	3.0	1.0	8.0	7.0	2.0	.....	62867	"
	As found.....	1.54	1.9	5.12	2.32	0.50	7.94	7.44	2.43	.....	
804	As guaranteed	1.64	2.0	3.0	4.0	1.0	8.0	7.0	4.0	.....	62868	"
	As found.....	2.03	2.49	5.10	2.43	0.72	8.25	7.53	3.77	.....	
1108	As guaranteed	0.82	1.0	.....	8.0	2.0	10.0	8.0	3.0	.....	62869	"
	As found.....	1.92	2.37	.....	.....	2.3	13.5	11.20	2.55	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62871	Sold without tag on bag.
.....		
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	62872	Sold without registration number.
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1349	As guaranteed	0.82	1.0	5.0	1.0	1.0	10.0	9.0	3.0	.....	62873	Meets guaranty.
	As found.....	0.92	1.14	7.90	2.60	0.56	11.06	10.50	2.87	.....	
1350	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0	.....	62874	"
	As found.....	1.71	2.1	4.36	4.87	1.43	10.60	9.17	2.78	.....	
1316	As guaranteed	.....	.....	8.0	4.0	1.0	13.0	12.0	2.0	.....	62875	"
	As found.....	.....	.....	9.20	2.78	1.02	13.00	11.88	2.02	.....	
1318	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	2.0	.....	62876	"
	As found.....	0.98	1.2	5.82	3.69	1.62	11.14	9.51	1.80	.....	
857	As guaranteed	.....	4.0	.....	.....	.....	8.0	8.0	.....	.....	62877	"
	As found.....	3.40	4.2	.....	.....	.....	9.81	.....	7.72	.....	
933	As guaranteed	.....	1.0	.....	.....	.....	8.0	8.0	2.0	.....	62878	"
	As found.....	1.04	1.30	.....	8.00	3.30	12.20	8.00	2.25	.....	
1228	As guaranteed	1.75	2.0	.....	8.0	.....	8.0	8.0	3.0	.....	62879	"
	As found.....	1.50	1.94	.....	10.18	2.67	12.80	10.18	3.11	.....	
84	As guaranteed	.....	4.0	.....	.....	.....	9.0	.....	5.0	.....	62880	"
	As found.....	3.59	4.46	.....	.....	.....	11.98	.....	5.64	.....	
82	As guaranteed	.....	1.0	.....	.....	.....	7.0	.....	3.0	.....	62881	"
	As found.....	1.24	1.54	.....	.....	.....	11.13	.....	3.44	.....	

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VALLEYFIELD—

1915.								
Mar. 24	No. 1.....	62882	Capelton Chem. & Fert. Co., Buckingham.	3 jars.	Nil	Vendors...		
" 24	Victor.....	62883	"	3 "	"	"		
" 24	Potato Special..	62884	"	3 "	"	"		
" 15	Farm Garden...	58259	Besner & Chasle, Valleyfield.	3 "	"	Bowker Fert. Co.		No tags on bags at time of taking sample.
" 15	Sure Crop.....	58260	"	3 "	"	"		
Apr. 28	12-2.....	62885	R. W. Blair, Hemmingford.	3 "	"	Buffalo Fert. Co.		
" 28	Farm and Garden	62886	J. McCanse, Hemmingford.	3 "	"	Bowker Fert. Co.		
May 4	Cuckers Crop Grower.	62887	T. S. McFarlane, Athelstane.	3 "	"	F. S. Royster Guano Co.		
" 4	Fish, Flesh and Fowl.	62888	"	3 "	"	"		
" 4	Acid Phosphate.	62889	"	3 "	"	"		
" 4	Grain Special...	62890	Thos. Coyland, Athelstane.	3 "	"	Inter. Chem. Corporation.		
" 4	Vegetable and Potato.	62891	"	3 "	"	"		
" 4	Ideal Wheat and Corn.	62892	"	3 "	"	"		
" 4	1-8-2.....	62893	"	3 "	"	"		
" 4	Farmers' Choice.	62894	"	3 "	"	"		

DISTRICT OF OTTAWA—

Mar. 9	Farmer's Choice	63396	H. Brown & Son, Brockville.	3 lb.	Nil.	Inter. Agr. Corp. Buffalo Fertilizer Wks. Buffalo		The figures 1146, were on bags on opposite side from claim and name of Brand. Did not say Reg. No.
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SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analysis.	
		Total : including that Nitric Acid or Ammonia, if present.	Total : Calculated as Ammonia.	Phosphoric Acid per cent.								
				Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.			Fineness.

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p. c.	
81	As guaranteed	.....	.....	.....	.....	.....	10.0	.....	.....	.....	62882 Meets guaranty
	As found.....	.....	.....	.....	.....	.....	15.19	.....	.....	.....
83	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	3.0	.....	62883 "
	As found.....	1.90	2.36	.....	.....	.....	12.06	.....	3.07	.....
336	As guaranteed	.....	2.0	6.0	.....	.....	.....	.....	8.0	.....	62884 "
	As found. . .	1.55	1.93	1.28	8.80	1.48	11.36	10.08	7.68	.....
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	58259 Sold without
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	registrat on
											number.
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	.....	58260 "
	As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1148	As guaranteed	.....	.....	9.0	3.0	1.0	13.0	12.0	2.0	.....	62885 Meets guaranty
	As found.....	.....	.....	8.30	3.94	2.57	14.81	12.24	2.43	.....
1378	As guaranteed	0.82	1.0	5.6	4.0	1.0	10.0	9.0	2.0	.....	62886 "
	As found.....	1.57	1.94	6.10	5.22	1.55	12.87	11.32	2.12	.....
1411	As guaranteed	0.82	1.0	6.0	2.0	0.50	8.50	8.0	1.0	.....	62887 "
	As found. . .	0.77	0.96	2.96	5.52	1.27	9.75	8.42	1.04	.....
1412	As guaranteed	1.65	2.0	6.0	2.0	0.50	8.50	8.0	3.0	.....	62888 "
	As found.....	1.62	2.0	4.88	5.0	1.50	11.38	9.8	3.57	.....
1413	As guaranteed	.....	.....	14.0	2.0	0.50	16.50	16.0	.....	.....	62889 "
	As found.....	.....	.....	9.32	8.15	1.85	19.32	17.47	.....	.....
1144	As guaranteed	2.1	2.5	6.0	2.0	1.0	9.0	8.0	1.5	.....	62890 "
	As found.....	1.94	2.4	6.00	3.67	1.95	11.62	9.67	1.49	.....
1143	As guaranteed	2.5	3.0	6.0	2.0	1.0	9.0	8.0	3.0	.....	62891 "
	As found.....	2.06	2.5	5.84	3.97	2.00	11.81	9.81	3.19	.....
1145	As guaranteed	1.6	2.0	7.0	2.0	1.0	10.0	9.0	2.0	.....	62892 "
	As found.....	1.51	1.9	6.36	3.87	2.10	12.68	10.23	2.11	.....
1147	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	2.0	.....	62893 "
	As found. . .	1.02	1.24	5.00	3.61	2.45	11.36	8.61	1.85	.....
1146	As guaranteed	0.80	1.0	7.0	3.0	1.0	11.0	10.0	2.0	.....	62894 "
	As found.....	0.90	1.1	7.38	4.25	1.00	12.63	11.63	1.78	.....

J. A. RICKEY, INSPECTOR.

.....	As guaranteed	0.82	1.0	7.0	3.0	1.0	11.0	10.0	2.0	.....	62896 Meets guarantee.
	As found.....	0.86	1.0	6.10	3.17	2.42	11.69	9.27	1.84	.....

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1915.								
Mar.	9 Vegetable and Potato.	63397	H. Brown & Son, Brockville, Ont.	3 lbs.	Nil.	Inter. Agr. Corp., Buffalo Fert. Wks., Buffalo.		The figures 1143, the same as previous sample.
"	9 Grain Special...	63398	" " " "	3 "	"	"		The figures 1144, same as sample 63396.
"	9 Ideal Wheat and Corn.	63399	" " " "	3 "	"	"		No. 1145 was not on bags. Got it from invoice.
"	11 Special High Grade Farmers Friend Superphosphate.	63497	W. F. Macpherson, Prescott.	3 "	"	American Agr. Chem. Co., New York.	Shipped from Cartaret.	
"	11 Farmer's Friend Superphosphate.	63498	" " " "	3 "	"	"	"	
"	9 Read's Special Corn, Wheat and Rye.	63584	The H. T. Murray Co., Brockville.	3 "	"	"	"	
"	9 Read's All Crop.	63585	" " " "	3 "	"	"	"	
"	9 Reads Pioneer Special.	63586	" " " "	3 "	"	"	"	
"	11 Sugar Beet, Corn and General Field Crop	63587	N. Willard, Prescott.	3 "	"	Gunn's Ltd., W. Toronto.		
"	11 Tobacco and Potato.	63588	" " " "	3 "	"	"		
"	13 Basic Slag A. Quality.	63589	W. G. Wood, Smith's Falls.	3 "	"	The Cross Fert. Co., Sydney.		
"	23 Bradley's Circle Phosphate.	63590	Perth Roller Mills, Perth, Ont	3 "	"	American Agr. Chem. Co., New York.	Shipped from Cartaret.	
"	23 Bradley's New Method.	63591	" " " "	3 "	"	"	"	
"	23 Bradley's Unicorn.	63592	" " " "	3 "	"	"	"	
"	25 Read's Vegetable and Vine.	63593	Baker & Snyder, Morrisburg.	3 "	"	Am. Agr. Chem. Co., N. York	Shipped from Cartaret.	
"	25 Read's Standard Superphosphate	63594	" " " "	3 "	"	"	"	
"	25 Read's Farmer's Reliable.	63595	" " " "	3 "	"	"	"	
"	26 Freeman's Bone and Potash.	63598	K. McDonald & Sons, Ottawa,	3 "	"	W. A. Freeman, Ltd., Hamilton.		

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinions of the Chief Analyst.				
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total: including that of Nitric Acid or Am- monia if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate- Soluble.	Insoluble.	Total.	Total Available.					
								Potash.		Fineness.		No. of Sample.	

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
....	As guaranteed	2.4	3.0	6.0	2.0	1.0	9.0	8.0	3.0		63397	Meets guaranty.
	As found.....	2.24	2.78	4.50	3.51	1.80	9.81	8.01	3.38			
...	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5		63398	"
	As found.....	1.92	2.38	5.18	4.19	1.82	11.19	9.37	1.6			
....	As guaranteed	1.6	2.0	7.0	2.0	1.0	10.0	9.0	2.0		63399	
	As found.....	1.84	2.29	4.87	3.77	2.62	11.26	8.64	2.07			
1353	As guaranteed	3.29	4.0	6.0	4.0	1.0	11.0	10.0	3.0		63497	
	As found.....	3.25	4.04	6.74	4.99	0.99	12.63	11.73	2.96			
1351	As guaranteed	2.06	2.5	4.0	4.0	1.0	9.0	8.0	3.0		63498	
	As found.....	2.16	2.68	4.82	4.68	1.10	10.50	9.40	3.40			
1350	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0		63584	
	As found.....	1.80	2.25	4.0	5.30	1.40	10.70	9.30	3.03			
1345	As guaranteed	0.89	1.0	5.0	4.0	1.0	10.0	9.0	3.0		63585	
	As found.....	1.04	1.3	5.30	4.31	1.82	11.13	9.63	3.13			
1348	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	3.0		63586	
	As found.....	1.12	1.39	5.20	3.07	1.82	10.00	8.27	2.07			
1224	As guaranteed	2.0	2.0				9.0		3.0		63587	
	As found.....	1.71	2.1				9.62		3.61			
1230	As guaranteed	4.0					7.0		3.0		63588	Nearly meets guaranty. Fair.
	As found.....	3.0	3.75				7.90		1.97			
557	As guaranteed				12.80		12.80	12.80		8.00	63589	Meets guaranty.
	As found.....				11.90		17.60	14.90				
725	As guaranteed			8.0	2.0	1.0	11.0	10.0	8.0		63590	
	As found.....			8.40	3.18	0.80	12.38	11.58	9.10			
187	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0		63591	
	As found.....	1.00	1.24	5.60	3.23	1.30	10.1	8.80	2.34			
739	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	2.0		63592	
	As found.....	1.73	2.15	6.20	3.60	1.40	11.25	9.84	2.37			
1352	As guaranteed	2.45	3	4	4	1	9	8	3		63593	
	As found.....	2.49	3.1	3.85	5.01	1.60	10.15	8.30	2.50			
383	As guaranteed	0.82	1	6	2	1	9	8	4		63594	
	As found.....	0.88	1.2	3.32	5.31	1.30	11.03	10.63	1.28			
735	As guaranteed			10	2	1	13	12			63595	
	As found.....			9.30	4.00	1.30	14.60	13.40				
147	As guaranteed							9			63596	
	As found.....	3.47	4.3					9.08	8.78			

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1915.								
Mar. 26	Potash Special..	63599	K. McDonald & Sons, Ottawa.	3 lbs.	Nil.	Capelton Chem Fert. Co., Buckingham		
" 26	Lawn....	63600	"	3 "	"	"		
April 22	Standard. ..	63696	Standard Fert. & Chem.Co., Smith's Falls.	3 "	"	Vendors ..		
" 22	Corn and Grass.	63697	"	3 "	"	"		
" 22	Phosphate Plaster.	63698	"	3 "	"	"		
" 22	Watchem Grow.	63699	"	3 "	"	"		

DISTRICT OF KINGSTON—

April 19	Scottish Potato Manure.	57379	Hoffman & Bunnett, Belleville.	3 lbs.	10	The Cross Fert. Co., Sydney.		
" 20	Bradley's Unicorn.	57386	John Gunyo, Brighton.	3 "	10	Amer. Agr. Chem. Co., Buffalo.		
" 20	Bradley's Vegetable.	57387	"	3 "	10	"		
" 20	Bradley's New Method.	57388	"	3 "	10	"		
" 20	Bradley's Half Century.	57389	"	3 "	10	"		
" 20	Bradley's Patent Superphosphate.	57390	"	3 "	10	"		
" 20	Bradley's Special B. D. Guano.	57391	"	3 "	10	Vendors ..		

DISTRICT OF TORONTO—

Mar. 17	Harab Davis 5-9-2.	66877	Ont. Fert. Co., Ltd., West Toronto.	3 lbs.	15	"		
" 17	Harab Davis 6-7-3.	66878	"	3 "	15	"		
" 17	Harab Davis Special 10-2.	66879	"	3 "	15	"		
" 17	Harab Davis 4-6-3.	66880	"	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinion of the Chief Analyst.		
		Nitrogen p. c.		Phosphoric Acid per cent.							
		Total: including that of Nitric Acid, or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.			
								Potash.	Fineness.	No. of Sample.	

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
336	As guaranteed	...	2	6	...	...	...	...	8	...	63599	Two per cent low
	As found	2.37	2.90	...	...	...	9.15	...	5.90	...		in potash, compensated. Pass.
336	As guaranteed	...	2	6	...	...	...	...	8	...	63600	Meets guaranty
	As found	1.64	2.04	...	...	...	11.75	...	7.88	...		
280	As guaranteed	2	2.4	8	1.5	5	14	9	2	...	63606	"
	As found	1.86	2.3	4.44	6.49	5.20	16.13	10.93	2.57	...		
1641	As guaranteed	1.65	2	6	1	4	11	7	4	...	63697	"
	As found	1.39	1.72	8.52	1.89	3.90	14.31	10.41	4.02	...		
283	As guaranteed	...	...	...	...	5	5	...	...	...	63698	"
	As found	...	...	...	...	7.52	10.19	2.67	...	...
282	As guaranteed	...	4	...	...	...	...	9	8	...	63699	Two per cent low
	As found	3.78	4.7	...	...	0.90	12.31	11.41	6.09	...		in potash compensated Pass.

JAMES HOGAN, INSPECTOR.

515	As guaranteed	2.47	3.0	7.0	1.0	1.0	9.0	8.0	3.5	...	57379	Meets guaranty.
	As found	2.71	3.40	1.04	9.85	2.17	12.06	10.89	3.79	...		
1292	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	2.0	...	57386	"
	As found	1.60	1.89	4.32	4.48	1.45	10.25	8.86	2.00	...		
1293	As guaranteed	3.29	4.0	6.0	4.0	1.0	11.0	10.0	3.0	...	57387	"
	As found	3.62	4.47	6.28	4.06	2.10	12.41	10.34	2.84	...		
1290	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	2.0	...	57388	"
	As found	0.87	1.07	3.06	5.67	1.65	10.38	8.73	1.92	...		
1294	As guaranteed	2.66	2.5	4.0	4.0	1.0	9.0	8.0	3.0	...	57389	"
	As found	1.93	2.38	4.26	4.56	1.37	10.19	8.82	2.96	...		
1293	As guaranteed	2.06	2.5	4.0	4.0	1.0	9.0	8.0	1.5	...	57390	"
	As found	1.93	2.38	2.18	5.89	1.37	9.44	8.07	1.38	...		
1291	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	3.0	...	57391	"
	As found	0.86	1.07	2.92	5.79	0.86	9.56	8.71	3.09	...		

H. J. DAGER, INSPECTOR.

1298	As guaranteed	4.1	5.0	3.0	6.0	1.0	10.0	9.0	2.0	...	58877	Meets guaranty
	As found	3.89	4.83	3.64	7.35	1.57	12.56	10.99	2.12	...		
1269	As guaranteed	4.9	6.0	2.0	5.0	1.0	8.0	7.0	3.0	...	58878	"
	As found	4.06	6.0	0.96	7.14	2.16	10.38	8.16	3.21	...		
1255	As guaranteed	...	...	7.0	3.0	1.0	11.0	10.0	3.0	...	58879	"
	As found	...	...	1.06	10.37	1.17	12.44	11.27	1.91	...		
1266	As guaranteed	3.3	4.0	3.5	2.6	1.0	7.0	6.0	3.0	...	58880	"
	As found	3.43	4.17	0.66	5.83	2.28	8.44	6.19	3.01	...		

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—								
1915.								
Mar. 17	Harab Davis 2½-9-2.	66881	Ont. Fert. Co., Ltd., West To- ronto.	3 lbs.	15	Vendors.....		
" 17	Harab Davis 1-12-1.	66882	" "	3 "	15	"		
" 17	Harab Davis 2-8-1½.	66883	" "	3 "	15	"		
" 17	Harab Davies, 4- 8-1½.	66884	" "	3 "	15	"		
" 17	Harab Davies, 3- 8-1½.	66885	" "	3 "	15	"		
" 17	Harab Davies, 4- 12-3.	66886	" "	3 "	15	"		
" 17	Harab Davies, 2- 19-2.	66887	" "	3 "	15	"		
" 17	Harab Davies, 3- 9-3.	66888	" "	3 "	15	"		
April 6	Harab Davies, Blood & Bone.	66889	" "	3 "	15	"		
" 6	Harab Davies, Special, 12-2.	66890	" "	3 "	15	"		
" 6	Harab Davies, 2½- 7-2.	66891	" "	3 "	15	"		
Mar. 6	Harab Davies, Blood, Bone and Potash.	66892	" "	3 "	15	"		
" 6	Harab Davies, Pure Ground Blood.	66893	" "	3 "	15	"		
" 6	Harab Davies, Acid Phos- phate.	66894	" "	3 "	15	"		
" 6	Harab Davies, 1½- 10-1.	66895	" "	3 "	15	"		
" 6	Harab Davies, Nitrate of Soda	66896	" "	3 "	15	"		
" 6	Shur Crop Wheat Special, 2-9-2.	66897	Gunn's Ltd, West Toronto.	3 "	15	"		
" 6	Gunn's Special.	66898	" "	3 "	15	"		
" 6	Sugar Beet, Corn and General Field Crop.	66899	" "	3 "	15	"		
" 6	Wheat Special, 2-9-2.	66900	" "	3 "	15	"		
April. 7	Harab Davies Pure Bone Meal.	66903	Ont. Fert. Co., Ltd., West To- ronto.	3 "	15	"		
" 7	Harab Davies Fine Steamed Bone Flour.	66904	" "	3 "	15	"		
" 8	Niagara Special	66905	Gunn's Ltd., West Toronto.	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZIERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.						Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.							
		Total, including that of Nitric Acid or Ammonia, if present.	Total, calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.				

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1262	As guaranteed	2 0	2 5	6 0	3 0	1 0	10 0	9 0	2 0	.....	66881	Meets guaranty.
	As found.....	2 21	2 71	0 74	7 85	3 60	12 19	8 59	2 28	.....	
1257	As guaranteed	0 80	1 0	5 0	7 0	1 0	13 0	12 0	1 0	.....	66882	
	As found....	1 31	1 63	3 80	10 48	2 35	16 63	14 28	1 56	.....	
1259	As guaranteed	1 6	2 0	5 0	3 0	1 0	9 0	8 0	1 0	.....	66883	
	As found.....	1 84	2 29	1 30	9 27	2 55	13 12	10 57	1 45	.....	
1265	As guaranteed	3 3	4	5	3	1	9	8	1 5	.....	66884	
	As found.....	3 22	3 91	1 52	8 47	2 57	12 56	9 99	1 39	.....	
1263	As guaranteed	2 4	3	5	3	1	9	8	1 5	.....	66885	
	As found.....	2 35	2 92	1 16	9 82	2 90	13 88	10 98	1 20	.....	
1267	As guaranteed	3 3	4	7	5	1	13	12	3	.....	66886	
	As found.....	3 45	3 8	4 42	8 23	1 72	14 37	12 65	3 10	.....	
1261	As guaranteed	1 6	2	6	4	1	11	10	2	.....	66887	
	As found.....	1 82	2 25	0 36	10 00	5 57	15 93	10 36	1 95	.....	
1264	As guaranteed	2 4	3	5	4	1	10	9	3	.....	66888	
	As found.....	2 45	3 0	1 22	7 11	4 42	12 75	8 33	3 40	.....	
1270	As guaranteed	7	8 5	10	1	1	11	10	.....	66889		
	As found.....	7 36	8 93	0 32	11 08	4 60	16 00	11 40	.....		
1256	As guaranteed	.....	.....	9	3	1	13	12	2	.....	66890	
	As found.....	.....	.....	1 58	10 29	1 92	13 69	11 77	1 58	.....	
1260	As guaranteed	2	2 5	4	3	1	8	7	2	.....	66891	
	As found.....	1 96	2 38	1 12	7 93	2 90	11 00	9 05	2 03	.....	
1271	As guaranteed	6 6	8	6	.....	2	8	6	3	.....	66892	
	As found.....	6 94	7 33	.....	.....	3 67	11 06	7 39	3 24	.....	
1276	As guaranteed	11 5	14	.....	.....	.....	.....	.....	.....	.....	66893	1 5 low in nitrogen.
	As found....	10 00	12 14	.....	.....	.....	.....	.....	.....	.....
1290	As guaranteed	.....	.....	16	.....	1	17	16	.....	.....	66894	Meets guaranty.
	As found....	.....	.....	18 00	0 25	1 00	19 25	18 25	.....	.....
1258	As guaranteed	1 2	1 5	.....	10	3	13	10	1	.....	66895	
	As found.....	2 11	2 6	0 25	8 43	7 37	16 06	8 69	2 43	.....	
1282	As guaranteed	15	18 3	.....	.....	.....	.....	.....	.....	.....	66896	
	As found.....	15 4	19 1	.....	.....	.....	.....	.....	.....	.....
1023	As guaranteed	1 65	2	7	2	1	10	0	2	.....	66897	
	As found....	1 70	2 1	7 68	1 95	1 00	10 63	9 63	2 49	.....	
1231	As guaranteed	2 46	3	0 5	6 5	2	9	7	2 4	.....	66898	
	As found.....	2 52	3 1	3 72	3 47	0 75	7 94	7 18	2 4	.....	
1234	As guaranteed	1 65	2	0 5	8 5	2	11	9	3	.....	66899	
	As found....	1 74	2 2	6 58	2 69	0 92	10 19	9 27	2 82	.....	
1235	As guaranteed	1 65	2	0 5	8 5	2	11	9	1	.....	66900	
	As found.....	1 74	2 2	5 0	2 97	0 97	8 94	7 97	1 5	.....	
1278	As guaranteed	3 3	4	.....	15	8	23	13	.....	.....	66901	
	As found.....	2 95	3 0	.....	18 61	6 00	25 61	18 61	.....	.....
1279	As guaranteed	2 8	3 5	.....	16	8	24	.....	.....	.....	66904	
	As found.....	2 87	3 65	.....	19 31	6 62	25 93	.....	.....	.....
1232	As guaranteed	2 46	3	0 5	8 5	2	11	9	3	.....	66905	
	As found.....	2 81	3 45	5 00	3 33	1 27	10 25	8 98	3 38	.....	

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.		
						Manufacturer. Furnisher.	

DISTRICT OF TORONTO—

1915.								
April 8	Black Loam Special.	66906	Gunn's Ltd., West Toronto.	3 lbs.	15	Vendors	.....	.....
" 8	Tobacco and Potato.	66907	" " "	3 "	15	"	.....	.....
" 8	Blood and Bone Compound.	66908	" " "	3 "	15	"	.....	.....
" 8	Bowling Green & Greenhouse.	66909	" " "	3 "	15	"	.....	.....
" 8	Acid Phosphate.	66910	" " "	3 "	15	"	.....	.....
" 8	Swift's 14%....	66911	Swift's Canadian Co., Ltd., West Toronto.	3 "	15	"	.....	.....
" 8	Dry Blood	66912	" " "	3 "	15	"	.....	.....
" 8	Swift's 2-10-2...	66913	" " "	3 "	15	"	.....	.....
" 8	" 2-8-2....	66914	" " "	3 "	15	"	.....	.....
" 8	" 1-9-2....	66915	" " "	3 "	15	"	.....	.....
" 8	Pure Bone Meal.	66916	Swift Can. Co., West Toronto.	3 "	15	"	.....	.....
" 8	Swift's 3 8-3....	66917	" " "	3 "	15	"	.....	.....
" 8	Swift's 2-9-3....	66918	" " "	3 "	15	"	.....	.....
" 8	Harab Davies, Ground Animal Tankage.	66919	Ont. Fert. Co. Ltd. West Toronto.	3 "	15	"	.....	.....
" 23	Steamed Bone..	66943	Gunn's Ltd., West Toronto.	3 "	15	"	.....	.....
" 23	Special Manure.	66944	" " "	3 "	15	"	.....	.....
" 23	4-8-3.....	66945	Swifts Can. Co., West Toronto.	3 "	15	"	.....	.....
" 23	Nitrate of Soda.	66946	" " "	3 "	15	.....	.....	Imported by Vendors.
" 23	Ground Tankage	66947	" " "	3 "	15	Vendor.....	.....	.....

DISTRICT OF HAMILTON—

Mar. 16	Vegetable and Potato Manure	66870	W. A. Freeman Co. Ltd., Hamilton.	4 lbs.	15	Vendors	....	.....
" 16	Grass, Grain and Fruit Manure.	66871	" " "	4 "	15	"	.....	.....
" 16	Celery and early Vegetable Manure.	66872	" " "	4 "	15	"	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: Including that of Nitric Acid or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1237	As guaranteed	.....	.....	0.5	9.5	0.61	10.61	10	2	.....	66906	Meets guaranty
	As found	.....	.....	3.48	7.49	0.72	11.69	10.97	2.03	.....	66907	"
1230	As guaranteed	3.3	4	0.5	6.5	2	9	7	3	.....	66908	"
	As found	3.91	3.8	5.24	3.44	0.57	9.25	8.68	3.44	.....	66909	"
1236	As guaranteed	4.95	6	0.5	6.5	2	9	7	2	.....	66910	"
	As found	4.80	6.0	1.46	9.34	0.70	11.56	10.80	2.22	.....	66911	"
1233	As guaranteed	3.3	4	0.5	5.5	2	8	6	3	.....	66912	"
	As found	2.68	3.35	3.60	5.77	0.82	10.19	9.37	3.82	.....	66913	"
1037	As guaranteed	.....	.....	14	2	0.8	16.8	16	.....	.....	66914	"
	As found	.....	.....	13.60	3.04	1.55	18.19	16.64	.....	.....	66915	"
1423	As guaranteed	.....	.....	13.14	0.86	0.22	14.22	14	.....	.....	66916	"
	As found	.....	.....	9.90	3.14	2.02	15.06	13.04	.....	.....	66917	"
1429	As guaranteed	13.17	16	.....	.....	.....	.....	.....	.....	.....	66918	"
	As found	13.4	16.6	.....	.....	.....	.....	.....	.....	.....	66919	"
1420	As guaranteed	1.65	2	8.46	1.54	1	11	10	2	.....	66920	"
	As found	1.59	2.5	5.96	4.02	1.40	11.38	9.98	2.26	.....	66921	"
1418	As guaranteed	1.65	2	4.92	3.08	0.94	8.94	8	2	.....	66922	"
	As found	1.98	2.5	4.47	4.74	0.92	10.13	9.21	2.16	.....	66923	"
1417	As guaranteed	0.82	1	7.29	1.80	0.42	9.42	9	2	.....	66924	"
	As found	1.56	1.91	5.98	4.00	0.95	10.23	9.98	2.05	.....	66925	"
1431	As guaranteed	2.47	3.0	6.35	3.65	14.0	24.0	10.0	.....	.....	66926	"
	As found	3.98	4.83	2.44	13.55	9.20	25.19	15.99	.....	.....	66927	"
1421	As guaranteed	2.47	3.0	4.54	3.46	0.97	8.97	8.0	3.0	.....	66928	"
	As found	1.89	2.0	5.66	3.72	0.75	10.13	9.38	3.15	.....	66929	"
1419	As guaranteed	1.65	2.0	7.20	1.80	0.42	9.42	9.0	3.0	.....	66930	"
	As found	1.62	2.0	5.48	3.71	1.62	10.81	9.19	2.86	.....	66931	"
1277	As guaranteed	7.4	9.0	.....	8.0	4.0	12.0	8.0	.....	.....	66932	"
	As found	7.0	8.7	.....	10.17	1.52	11.69	10.17	.....	.....	66933	"
1038	As guaranteed	2.46	3.0	0.4	12.6	9.0	22.0	13.0	.....	.....	66934	"
	As found	3.0	3.8	0.52	15.81	6.92	23.25	16.33	.....	.....	66935	"
1239	As guaranteed	1.65	2.0	0.5	9.5	2.0	12.0	10.0	.....	.....	66936	"
	As found	1.58	1.9	5.76	5.72	1.02	11.50	10.48	.....	.....	66937	"
1122	As guaranteed	3.29	4.0	4.92	3.08	0.91	8.94	8.0	3.0	.....	66938	"
	As found	3.16	4.3	4.40	4.20	1.47	10.07	8.60	3.24	.....	66939	"
1426	As guaranteed	15.0	18.0	.....	.....	.....	.....	.....	.....	.....	66940	"
	As found	15.5	19.1	.....	.....	.....	.....	.....	.....	.....	66941	"
1428	As guaranteed	5.76	7.0	2.65	2.21	6.14	11.0	4.86	.....	.....	66942	"
	As found	7.39	8.9	0.28	11.19	1.40	12.87	11.47	.....	.....	66943	"

H. J. DAGER, ACTING INSPECTOR.

1250	As guaranteed	3.0	4.0	6.0	3.0	0.50	9.7	9.0	3.0	.....	66944	Meets guaranty.
	As found	3.36	4.17	3.51	7.68	1.96	13.12	11.22	2.28	.....	66945	"
1253	As guaranteed	1.50	2.0	5.0	3.0	0.25	8.50	8.0	2.0	.....	66946	"
	As found	2.06	2.56	3.42	6.61	1.50	11.56	10.06	2.56	.....	66947	"
1254	As guaranteed	3.75	5.0	6.0	3.0	0.50	9.7	9.0	2.50	.....	66948	"
	As found	4.52	5.61	3.88	6.91	1.40	12.19	10.79	2.15	.....	66949	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON—

1915.								
Mar. 16	Sure Growth...	66873	W.A. Freeman Co. Ltd., Hamilton.	4 lbs.	15	Vendors		
" 16	Bone Meal.....	66874	" " " "	"	15	"		
Apr 13	Crocker's Revised High Grade Special.	66920	Tetterington Bros. St. Catharines.	3 "	15	American Agr. Chem. Co., Buffalo.		
" 13	Crocker's Special Complete Manure.	66921	" " " "	3 "	15	"		
" 13	Bradley's Patent Super phosphate.	66922	" " " "	3 "	15	"		
" 13	Nitrate of Soda..	66923	" " " "	3 "	15		Am. Agr. Chem. Co. Buffalo.	
" 13	Buffalo 12-2....	66924	Chas. Taylor & Co. St. Catharines.	3 "	15	Int. Agr. Fert. Co., Buffalo.		
" 14	Buffalo Wheat Special.	66925	Ernest Platt, Wel. land.	3 "	15	Buffalo Fert. Wks. Buffalo		
" 14	Vegetable and Potato.	66926	" " " "	3 "	15	"		
" 14	Ideal Wheat and Corn.	66927	" " " "	3 "	15	"		
" 14	Farmer's Choice.	66928	" " " "	3 "	15	"		
" 14	Buffalo 1-8-3...	66929	" " " "	3 "	15	"		
" 14	Basic Slag A Quality.	66930	" " " "	3 "	15		Buffalo Fert. Wks. Buffalo.	
" 15	Crocker's Wheat and Corn.	66931	F. A. J. Shephard, Queenston.	3 "	15	Amer. Agr. Chem. Co., Ltd., Buffalo.		
" 15	Crocker's Potato, Hop and Tobacco.	66932	" " " "	3 "	15	"		
" 15	Fertilizer.....	66933	Amer. Cyanide Co., Niagara Falls.	3 "	15	Vendors		
" 16	Schall's Special Corn and Potato.	66934	E. E. Morse, Fenwick.	3 "	15	Schall Sheldon Fert. Co., Buffalo.		
" 16	Schall's Special Tucker's Manure.	66935	" " " "	3 "	15	"		
" 16	Schall's Standard.	66937	" " " "	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphate Acid per cent.								
		Total, including that of Nitric Acid or Ammonia, if present.	Total, calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	---	66873	Meets guaranty.
	As found.....	2.85	3.54	2.92	8.21	1.87	12.00	11.13	3.65	---		
146	As guaranteed	2.47	3.0	---	20.0	1.0	21.0	20.0	---	---	66874	low in available-phosphoric acid; but above guaranteed value. Pass.
	As found.....	4.38	5.44	---	15.80	---	21.06	---	---	---		
1300	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0	---	66920	Meets guaranty.
	As found.....	1.66	2.1	4.54	3.60	1.67	9.81	8.14	3.01	---		
1299	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	3.0	---	66921	
	As found.....	0.80	0.99	4.66	3.89	1.45	10.00	8.55	3.23	---		
1293	As guaranteed	2.06	2.5	4.0	4.0	1.0	9.0	8.0	1.5	---	66922	
	As found.....	2.02	2.5	3.90	5.61	1.30	10.81	9.51	1.80	---		
1287	As guaranteed	15.0	18.23	---	---	---	---	---	---	---	66923	
	As found.....	14.5	18.0	---	---	---	---	---	---	---		
1148	As guaranteed	---	---	9.0	3.0	1.0	13.0	12.0	2.0	---	66924	
	As found.....	---	---	7.48	4.41	2.37	14.19	11.89	1.87	---		
678	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	---	66925	
	As found.....	2.3	2.9	1.70	6.75	2.07	10.56	8.49	1.70	---		
1143	As guaranteed	2.5	3.0	6.0	2.0	1.0	9.0	8.0	3.0	---	66926	
	As found.....	2.24	2.8	5.76	3.19	0.92	9.87	8.95	3.05	---		
1115	As guaranteed	1.6	2.0	7.0	2.0	1.0	10.0	9.0	2.0	---	66927	
	As found.....	1.82	2.25	6.88	3.50	1.47	11.85	10.38	2.20	---		
1146	As guaranteed	0.80	1.0	7.0	3.0	1.0	11.0	10.0	2.0	---	66928	
	As found.....	0.68	0.85	6.16	4.23	3.25	13.94	10.69	2.05	---		
1149	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	3.0	---	66929	
	As found.....	1.04	1.3	4.90	4.47	1.95	11.32	9.37	3.05	---		
557	As guaranteed	---	---	12.8	---	---	---	---	---	---	66930	
	As found.....	---	---	14.6	---	---	---	---	---	---		
1304	As guaranteed	2.06	2.5	4.0	4.0	1.0	9.0	8.0	1.5	---	66931	
	As found.....	2.04	2.5	4.44	5.50	1.35	11.38	10.03	1.40	---		
1302	As guaranteed	2.06	2.5	4.0	4.0	1.0	9.0	8.0	3.0	---	66932	
	As found.....	1.96	2.4	4.12	4.76	1.87	10.75	8.88	3.11	---		
445	As guaranteed	14	17.0	---	---	---	---	---	---	---	66933	
	As found.....	16.0	19.9	---	---	---	---	---	---	---		
1320	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0	---	66934	
	As found.....	1.73	2.1	3.82	4.99	1.62	10.43	8.81	3.21	---		
1317	As guaranteed	2.47	3.0	4.0	4.0	1.0	9.0	8.0	3.0	---	66935	
	As found.....	2.35	2.95	9.14	0.33	1.40	10.87	9.47	3.09	---		
1316	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	3.0	---	66937	
	As found.....	1.57	1.94	3.54	5.41	0.94	9.88	8.98	2.20	---		

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF HAMILTON—								
1915.								
April 16	Schall's Fire-side Phosphate.	66938	E. E. Morse Fenwick.	3 lbs.	15	Schall Sheldon Fert. Co., Buffalo.		
" 16	Nitrate of Soda.	69939	" "	3 "	15		Schall Sheldon Fert. Co., Buffalo.	
" 20	Bowker's Sure Crop Phosphate.	66940	Robert James Dunnville.	3 "	15	Bowker's Fert. Co., Buffalo.		
" 20	Bowker's Farm and Garden Phosphate.	66941	" "	3 "	15	" "		
" 21	Bowker's Special Golden Harvest.	66942	W. E. Everingham, Canfield.	3 "	15	" "		
DISTRICT OF WINDSOR—								
Mar. 17	Stone's 2-7-3....	54730	Wm. Stone & Sons, Ingersoll.	3 jars.	Nil.	Vendors....		
" 17	Stone's Fruit Fert.	54731	" "	3 "	"	"		
" 17	Stone's Garden Fert.	54732	" "	3 "	"	"		
" 17	Stone's Garden and Root.	54734	" "	3 "	"	"		
" 17	Oxford Special	54735	" "	3 "	"	"		
" 17	Stone's 10-2....	54736	" "	3 "	"	"		
April 12	Grass and Grain	54745	A. M. Hamilton & Son, London.	3 "	"	W. H. Freeman, Hamilton.		
" 12	Potato Manure.	54746	" "	3 "	"	" "		
" 12	Celery and Vegetable.	54747	" "	3 "	"	" "		
" 12	Sure Growth	54748	" "	3 "	"	" "		
" 14	A-1 Potash.....	54749	Sargeant Co., Chatham.	3 "	"	Michigan Carbon Works, Detroit.		
" 14	General Fert....	54750	" "	3 "	"	" "		
" 14	Bone Black. ...	54751	" "	3 "	"	" "		
" 14	Red Lime Phosphates	54752	" "	3 "	"	" "		
" 14	Bean Fertiliser.	54753	" "	3 "	"	" "		

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total : including that of Nitric Acid or Ammonia, if present. Total : Calculated as Ammonia.		Phosphoric Acid per cent.						Potash.	Fineness.		
				Soluble in Water.	Reverted or Citrate Soluble.	Soluble.	Total.	Total Available.					
Concluded.													
1318	As guaranteed	3.29	4.0	3.0	3.0	1.0	7.0	6.0	3.0	.....	66938	Meets guaranty.
	As found.....	3.33	4.0	3.40	3.29	1.75	8.44	6.69	2.80	.....		
1287	As guaranteed	15.0	18.23	..	..	..	..	..	..	.....	66939	..
	As found.	15.42	19.1	..	..	..	..	..	..	.....
1357	As guaranteed	0.82	1.0	5.0	4.0	1.0	10.0	9.0	2.0	...	66940	..	
	As found....	0.94	1.2	5.32	3.98	1.70	11.00	9.30	2.03	...			
1358	As guaranteed	1.65	2.0	4.0	4.0	1.0	9.0	8.0	2.0	.....	66941	..
	As found.....	1.72	2.1	4.40	4.63	1.47	10.50	9.03	1.95	.....		
1355	As guaranteed	.....	.....	8.0	4.0	1.0	13.0	12.0	2.0	.....	66942	..
	As found.....	.....	.....	8.70	4.23	1.20	14.13	12.95	1.68	.....		

JOHN TALBOT, INSPECTOR.

1173	As guaranteed	1.64	2.0	5.50	1.50	1.0	8	7.0	3.0	.....	54730	Meets guaranty.
	As found.....	1.56	1.9	1.48	7.68	1.40	10.56	9.16	2.23	.....	
1087	As guaranteed	1.64	2.0	10.50	1.50	1.50	13.50	12.0	3.0	.....	54731	One per cent low in potash.
	As found.....	1.49	1.9	10.36	3.14	1.25	14.75	13.50	1.86	.....	
1089	As guaranteed	3.29	4.0	4.0	4.0	1.0	9.0	8.0	4.0	.....	54732	One per cent low in potash. Compensated. Pass.
	As found.....	4.52	5.6	1.62	6.94	2.25	10.81	8.56	2.91	.....	
545	As guaranteed	1.64	2.0	6.50	1.50	1.25	9.25	8.0	2.0	.....	54733	Meets guaranty.
	As found....	1.76	2.2	1.14	7.59	1.02	9.75	8.73	2.34	.....	
889	As guaranteed	0.83	1.0	9.0	1	1.0	11.0	10.0	2.0	.....	54735	"
	As found....	1.44	1.7	3.38	7.74	1.32	12.44	11.12	1.47	.....	
1085	As guaranteed	.....	.....	9.50	0.50	1.0	11.0	10.0	2.0	.....	54736	"
	As found....	.....	.....	2.94	8.52	0.60	12.06	11.46	2.57	.....	
1253	As guaranteed	1.50	2.0	5.0	3.0	0.25	8.50	8.0	2.0	.....	54745	"
	As found....	2.02	3.1	4.18	5.43	1.32	10.93	9.61	2.47	.....	
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	.....	54746	Low in potash, but compensated value. Pass.
	As found....	4.21	5.2	6.50	4.40	2.35	13.31	10.96	2.17	.....	
*148	As guaranteed	4.12	5.0	5.50	3.50	0.25	9.25	9.0	2.5	.....	54747	Low in nitrogen.
	As found....	2.37	2.95	5.00	6.73	1.52	13.25	11.73	2.27	.....	
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	.....	54748	Meets guaranty.
	As found....	2.63	3.2	2.08	7.40	1.52	11.00	9.48	3.09	.....	
1326	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	3.0	.....	54749	"
	As found....	0.99	1.22	4.84	3.78	2.25	10.87	8.62	2.90	.....	
1327	As guaranteed	1.65	2.0	4.6	4.0	1.0	9.0	8.0	3.0	.....	54750	"
	As found....	1.72	2.1	3.34	5.96	2.70	12.00	9.30	2.90	.....	
1330	As guaranteed	2.06	2.5	4.0	4.0	1.0	9.0	8.0	1.5	.....	54751	"
	As found....	1.94	2.38	3.60	5.13	2.65	11.38	8.73	1.61	.....	
1325	As guaranteed	.....	.....	6.0	4.0	1.0	11.0	10.0	2.0	.....	54752	"
	As found....	.....	.....	4.86	5.32	3.47	13.75	10.38	1.97	.....	
1328	As guaranteed	1.45	2.0	4.0	4.0	1.0	9.0	8.0	3.0	.....	54753	"
	As found....	1.48	2.1	4.52	4.31	2.30	11.13	8.80	3.03	.....	

* Should have been sold as 1254. Claim NH_4S , $\text{K}_2\text{O} = 2.5 = \text{P}_2\text{O}_5$ 9.50. Mr. Freeman's Claim.

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR—								
1915.								
Apr. 14	2-8-3.	54754	J. D. Soutar, Chatham.	3 jars.	Nil.	Buffalo Fert. Co. Buffalo.		
" 14	Farmer's Choice.	54755	" " "	3 "	"	" "		
" 14	Ideal Brand....	54756	" " "	3 "	"	" "		
" 14	Best by test 2-8-2	54757	Canadian Fert. Co. Chatham.	3 "	"	Vendors		
" 15	Best by test 3-8-3	54758	" " "	3 "	"	"		
" 15	16% available Acid Phosphate.	54759	" " "	3 "	"	"		
" 15	Best by test 4-8-3	54760	" " "	3 "	"	"		
DISTRICT OF MANITOBA—								
Feb. 26	Bone Flour.....	61248	Steel Briggs Seed Co., Winnipeg.	3 lbs.	25	W.A. Freeman Co. Ltd. Hamilton.		No Reg. No.
" 26	Flower Fertilizer	61249	" " "	3 pkg.	25	"		"
" 27	Fertilizer	61250	Wm. Rennie Co. Portage Avenue, Winnipeg.	3 "	1.50	Bonora Chem. New York.		"
" 27	"	61251	" " "	3 "	15	Vendors		
DISTRICT OF NELSON—								
Mar. 13	"A" Fertilizer.	61771	Brackman Ker M. Co., Nelson.	3 lbs.	15	Victoria Chem. Co. Victoria.		
" 13	"B" " "	61772	" " "	3 "	15	"		
" 13	"D" " "	61773	" " "	3 "	15	"		
" 13	Nitrate of Soda.	61774	" " "	3 "	15	"		
" 13	Sulphate of Potash.	61775	" " "	3 "	15	"		
" 13	Muriate of Potash	61776	" " "	3 "	15	"		
" 13	Superphosphate of Lime.	61777	" " "	3 "	15	"		
" 13	B. and K. Bone Meal.	61778	" " "	3 "	15	Vendors		
" 13	"A" Fertilizer.	61779	P. Burns & Co. Nelson.	3 "	15	P. Burns Co. Calgary.		
" 13	"B" " "	61780	" " "	3 "	15	"		
" 13	"C" " "	61781	" " "	3 "	15	"		
" 13	"D" " "	61782	" " "	3 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Potash.	Fineness.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.								
		Total: including that of Nitric Acid or Ammonia, if present.	Total: Calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1151	As guaranteed	1 6	2 0	6 0	2 0	1 0	9 0	8 0	3 0	.....	54745	Meets guaranty.
	As found.....	1 20	1 15	8 28	5 37	2 60	16 25	13 65	2 24	.....	
1146	As guaranteed	0 82	1 0	7 0	3 0	1 0	11 0	10 0	2 0	.....	54755	
	As found.....	0 93	1 13	5 98	4 28	1 87	12 13	10 26	2 10	.....	
1145	As guaranteed	1 6	2 0	7 0	2 0	1 0	10 0	9 0	2 0	.....	54756	
	As found.....	1 58	1 92	6 58	3 84	2 02	12 44	10 42	2 24	.....	
1454	As guaranteed	...	2 0	...	...	...	8 0	...	2 0	.....	54757	
	As found.....	1 58	1 92	...	...	...	9 49	...	1 44	.....	
1453	As guaranteed	...	3 0	...	...	...	8 0	...	3 0	.....	54758	
	As found.....	2 64	3 21	...	...	...	10 00	...	2 53	.....	
1458	As guaranteed	...	...	...	...	...	...	16 0	...	.....	54759	
	As found.....	...	...	...	...	...	17 60	...	...	.....
1452	As guaranteed	...	4 0	...	...	...	8 0	...	3 0	.....	54760	
	As found.....	2 67	3 24	...	...	...	10 19	...	3 01	.....	

A. C. LARIVIERE, INSPECTOR.

...	As guaranteed	...	...	...	...	...	...	...	...	...	61248	Sold without register number.
	As found.....	...	...	...	...	...	...	...	...	...
...	As guaranteed	...	...	...	...	...	...	...	...	...	61249	
	As found.....	...	...	...	...	...	...	...	...	...
...	As guaranteed	...	...	...	...	...	...	...	...	...	61250	
	As found.....	...	...	...	...	...	...	...	...	...
969	As guaranteed	...	3 0	5 50	2 50	0 25	8 25	8 0	2 0	.....	61251	Meets guaranty.
	As found.....	2 47	3 0	6 44	5 47	0 52	10 43	9 91	4 91	.....	

THOS. PARKER, INSPECTOR.

73	As guaranteed	4 0	...	10 00	...	...	...	...	7 0	.....	61771	Meets guaranty.
	As found.....	3 81	4 63	10 00	1 78	0 67	12 45	11 78	7 82	.....	
921	As guaranteed	3 50	...	...	...	...	9 0	...	11 0	.....	61772	
	As found.....	3 45	1 20	8 15	3 27	0 98	12 40	11 42	10 52	.....	
76	As guaranteed	2 50	...	10 0	...	...	...	...	11 0	.....	61773	
	As found.....	2 22	2 60	9 10	3 21	6 95	13 30	12 31	12 25	.....	
77	As guaranteed	15 0	...	...	...	...	...	...	...	.....	61774	
	As found.....	14 95	18 30	...	...	...	...	...	...	.....
78	As guaranteed	...	...	...	...	...	...	...	50 0	.....	61775	
	As found.....	...	...	...	...	...	...	...	50 37	.....	
79	As guaranteed	...	...	...	...	...	...	...	50 0	.....	61776	
	As found.....	...	...	...	...	...	...	...	52 43	.....	
80	As guaranteed	...	...	16 0	...	...	...	...	...	.....	61777	
	As found.....	...	...	13 35	5 64	1 66	20 65	18 30	...	.....
365	As guaranteed	...	3 5	...	...	...	26 0	...	...	.....	61778	
	As found.....	3 03	3 71	...	...	...	25 08	...	...	.....
430	As guaranteed	2 80	3 40	0 26	1 10	13 85	15 30	1 41	2 80	.....	61779	
	As found.....	3 64	4 30	0 15	11 70	7 08	18 80	11 80	8 74	.....	
431	As guaranteed	6 10	7 40	0 11	9 28	2 81	12 20	30 20	4 72	.....	61780	
	As found.....	5 42	6 50	0 22	7 02	1 26	9 10	7 84	15 36	.....	
432	As guaranteed	5 61	6 81	0 66	3 07	6 67	10 60	8 30	5 71	.....	61781	
	As found.....	6 17	7 87	0 28	8 28	2 05	10 60	8 30	7 40	.....	
433	As guaranteed	6 54	7 90	0 17	8 20	4 30	15 73	8 41	4 60	.....	61782	
	As found.....	7 73	9 40	0 24	6 30	1 21	8 35	7 14	7 63	.....	

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cost.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1915.								
Mar. 10	B. and K. Bone Meal.	55210	Kew Gardens 503 Pender St., Van.	3 jars.	10	Brackman Ker M. Co., Victoria.	.....	.....
" 10	Ground Bone No. 2.	55211	" " "	3 "	10	Vane, Prince Rupert Meat, New Westminster.	.....	.....
" 10	Fertilizer B....	55212	Brackman Ker M. Co., Vancouver.	3 "	30	Victoria Chem. Co. Victoria.	.....	.....
" 10	" B. Special	55213	" " "	3 "	30	" ..	.....	.....
" 10	" C.	55214	" " "	3 "	30	" ..	.....	.....
" 10	" D.	55215	" " "	3 "	30	" ..	.....	.....
" 11	Dried Blood...	55216	P. Burns Co. Ltd. Vancouver.	3 "	Nil.	Vendors.....	.....	.....
" 11	Tankage.....	55217	P. Burns Co., Ltd., Vancouver.	3 jars.	Nil.	Vendors....	.....	.....
" 11	Fertilizer A	55218	Brackman-Ker M. Co., Vancouver.	3 "	30	Victoria Chem. Co., Victoria.	.....	.....
" 11	Sulphate of Potash.	55219	" " "	3 "	30	" ..	.....	.....
" 11	Superphosphate of Lime.	55220	" " "	3 "	30	" ..	.....	.....
" 11	Nitrate of Soda.	55221	" " "	3 "	30	" ..	.....	.....
" 11	Muriate of Potash.	55222	" " "	3 "	30	" ..	.....	.....
" 11	Flower Fertilizer.	55223	A. J. Woodward, 667 Granville St., Vancouver.	3 pkgs.	75	" ..	.....	.....
" 11	Canary Guano..	55224	Brown Bros. & Co., Ltd., 785 Granville St., Vanc.	3 tins.	100	The Chem. Union, Ipswich, Eng.	.....	Not registered. Proprietor said he would apply for Reg. No.
" 12	Lawn Fertilizer.	55225	Campbell's Ltd., Granville and Hastings Sts., Vancouver.	3 pkgs.	75	Victoria Chem. Co., Victoria.	.....	.....
" 12	Sweet Pea Fertilizer.	55226	" " "	3 "	75	" ..	.....	.....
" 12	Thomas Phosphate.	55227	Brackman-Ker M. Co., Vancouver.	3 jars.	30	" ..	.....	.....
" 15	Nitrate of Lime.	55228	Wm. Rennie Co., Ltd., Vancouver.	3 "	25	Unknown ....	.....	.....
" 19	Tankage.. ...	55229	Vanc. Prince Rupert Meat Co., New Westminster.	3 "	....	Vendors ...	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.	
		Total: including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Phosphoric Acid per cent.					Potash.			Fineness.
				Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.				
355	As guaranteed As found.....	..... 2 83	3 50 3 44	..... .....	..... .....	..... .....	26 0 26 90	..... .....	..... .....	..... .....	55210	Meets guaranty.
905	As guaranteed As found....	4 10 4 11	4 95 5 00	..... .....	10 94 12 10	14 90 12 10	25 90 24 20	11 0 12 10	0 05 0 04	..... .....	55211	"
924	As guaranteed As found.....	3 50 3 54	..... 4 31	..... 10 10	..... 0 72	..... 0 58	..... 11 40	..... 10 82	..... 10 06	..... .....	55212	"
924	As guaranteed As found.....	3 50 3 55	..... 4 31	..... 7 90	..... 2 19	..... 0 91	..... 11 00	..... 10 09	..... 12 58	..... .....	55213	"
75	As guaranteed As found.....	..... .....	..... .....	..... 12 50	..... 12 00	..... 2 16	..... 0 69	..... 14 85	..... 14 16	..... 11 30	55214	"
76	As guaranteed As found.....	..... 2 50	..... .....	..... 10 0	..... .....	..... .....	..... .....	..... .....	..... 11 0	..... .....	55215	"
603	As guaranteed As found.....	..... 13 10	..... 15 00	..... .....	..... .....	..... .....	..... .....	..... .....	..... 12 23	..... .....	55216	"
602	As guaranteed As found.....	..... 6 37	..... 7 75	..... .....	..... .....	..... .....	..... 11 0	..... .....	..... .....	..... .....	55217	"
73	As guaranteed As found.....	..... 4 0	..... 3 72	..... 4 52	..... 10 35	..... 1 19	..... 0 36	..... 11 90	..... 11 54	..... 8 04	55218	"
78	As guaranteed As found.....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... 50 0	..... .....	55219	"
80	As guaranteed As found.....	..... .....	..... .....	..... 16 0	..... .....	..... .....	..... .....	..... .....	..... 50 47	..... .....	55220	"
77	As guaranteed As found.....	..... 15 0	..... .....	..... 14 65	..... 3 39	..... 2 21	..... 20 25	..... 18 04	..... .....	..... .....	55221	"
79	As guaranteed As found.....	..... 15 10	..... 18 36	..... .....	..... .....	..... .....	..... .....	..... .....	..... 50 0	..... .....	55222	"
1095	As guaranteed As found.....	..... 4 0	..... 4 86	..... 10 0	..... .....	..... .....	..... 10 0	..... 10 0	..... 8 0	..... .....	55223	"
...	As guaranteed As found.....	..... 4 96	..... 6 03	..... 0 50	..... 4 90	..... 9 0	..... 14 40	..... 5 40	..... 0 82	..... .....	55224	Registration number applied for, but not granted at time of sale.
1096	As guaranteed As found.....	..... 5 0	..... 6 07	..... 10 0	..... .....	..... .....	..... 10 0	..... 10 0	..... 5 0	..... .....	55225	Meets guaranty.
1097	As guaranteed As found.....	..... 5 56	..... 6 76	..... 14 10	..... 0 63	..... 0 12	..... 14 25	..... 14 13	..... 5 98	..... .....	55226	"
513	As guaranteed As found.....	..... 2 6	..... 2 43	..... 11 0	..... .....	..... .....	..... 11 0	..... 11 0	..... 10 0	..... .....	55227	"
1354	As guaranteed As found.....	..... 2 30	..... 2 79	..... 14 40	..... 0 52	..... 0 18	..... 15 10	..... 14 92	..... 11 07	..... .....	55228	"
902	As guaranteed As found.....	..... 13 0	..... 15 70	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	55229	"

E. J. MORGAN, INSPECTOR.

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1915.								
Mar. 19	Dried Blood....	55230	Vanc. Prince Rupert Meat Co., New Westminster.	3 jars.	....	Vendors....	.....	.....
" 19	Ground Bone No. 1.	55231	" " " "	3 "	....	" "	.....	.....
" 19	Ground Bone No. 3.	55232	" " " "	3 "	....	" "	.....	.....
Apr. 8	Ritchie's Fertilizer.	55233	Ritchie Brand & Co., 723 Robson St., Vancouver.	3 "	50	Richardson Chem. Manure Co., Ltd., Belfast, Ireland.	.....	.....

DISTRICT OF VICTORIA—

Mar. 30	Whale Guano...	62084	Brackman-Ker M. Co., Victoria.	2 lbs.	5	Can. North Pac. Fisheries, Ltd., Victoria.	.....	.....
" 30	Bone Meal.....	62085	" " " "	2 "	5	Vendors .....	.....	.....
" 30	Complete.....	62086	Sylvester Bros., 709 Yates St., Victoria.	2 "	Nil	" .....	.....	.....
" 31	Fertilizer A	62087	Victoria Chem. Co., Victoria.	2 "	6	" .....	.....	.....
" 31	" B	62088	" " " "	2 "	6	" .....	.....	.....
" 31	" C	62089	" " " "	2 "	6	" .....	.....	.....
" 31	" D	62090	" " " "	2 "	6	" .....	.....	.....
" 31	Muriate of Potash.	62091	" " " "	2 "	6	Meyer-Wilson, San Francisco.	.....	.....
" 31	Sulphate of Potash.	62092	" " " "	2 "	6	" .....	.....	.....
" 31	Superphosphate of Lime.	62093	" " " "	2 "	6	Vendors.....	.....	.....
" 31	Thomas Phosphate.	62094	" " " "	2 "	6	Sydney Smith, London, Eng.	.....	.....
" 31	Nitrate of Soda.	62095	" " " "	2 "	6	Grace & Co., San Francisco.	.....	.....
" 31	Bone Meal.....	62096	" " " "	2 "	6	Can. Northern Pacific Fisheries, Ltd., Victoria.	.....	.....
" 31	Two Blade Brand Sweet Peas.	62097	" " " "	2 "	6	Vendors ..	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis								Potash.	Finesness.	No. of Sample	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid per cent.									
		Total, including that of Nitric Acid or Ammonia if present.	Total: Calculated as Ammonia.	Soluble in Water	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.					
903	As guaranteed	12.25	14.90	1.10	0.59	1.73	1.14	0.05	55230	Meets guaranty.		
	As found, . . .	12.96	15.76	.....	0.54	0.11	0.65	0.54	0.21			
904	As guaranteed	4.10	4.95	10.94	14.90	25.90	11.00	0.05	55231	"		
	As found, . . .	4.20	5.10	.....	13.60	10.60	23.60	13.60	0.04			
906	As guaranteed	4.10	4.95	10.94	14.90	25.90	11.00	0.05	55232	"		
	As found, . . .	4.04	4.99	.....	14.45	11.45	25.90	14.45	0.06			
1247	As guaranteed	3.50	4.25	5.10	3.20	3.21	11.51	8.30	5.82	55233	"		
	As found, . . .	3.19	3.88	6.05	5.00	1.40	12.45	11.05	5.87				

Concluded.

D. O'SULLIVAN, INSPECTOR.

589	As guaranteed	10.30	12.50	.....	.....	.....	.....	.....	.....	62084	Meets guaranty.
	As found....	11.03	13.40	.....	.....	.....	.....	.....	.....
355	As guaranteed	.....	3.50	.....	.....	.....	26.0	.....	.....	62085	"
	As found....	3.13	3.81	.....	.....	.....	26.80	.....	.....
884	As guaranteed	1.08	2.04	.....	5.50	13.40	19.00	5.60	.....	62086	Four per cent. low in phosphoric acid.
	As found....	1.22	1.48	0.05	7.90	4.70	12.67	7.95	.....	
73	As guaranteed	4.0	.....	10.0	.....	.....	.....	7.0	.....	62087	Meets guaranty.
	As found....	3.47	4.22	10.05	1.20	0.30	11.55	11.25	8.08		
924	As guaranteed	3.50	.....	.....	.....	.....	9.0	.....	11.0	62088	"
	As found....	3.35	4.07	9.00	0.97	0.38	10.35	9.97	11.00		
75	As guaranteed	.....	.....	12.50	.....	.....	.....	.....	11.0	62089	"
	As found....	.....	.....	12.70	1.31	0.24	14.25	14.01	10.75		
76	As guaranteed	2.50	.....	10.0	.....	.....	.....	.....	11.0	62090	"
	As found....	2.54	3.09	10.05	0.96	0.44	11.45	11.01	11.15		
79	As guaranteed	.....	.....	.....	.....	.....	.....	50.0	.....	62091	"
	As found....	.....	.....	.....	.....	.....	.....	52.21	.....	
78	As guaranteed	.....	.....	.....	.....	.....	.....	50.0	.....	62092	"
	As found....	.....	.....	.....	.....	.....	.....	50.27	.....	
80	As guaranteed	.....	16.0	.....	.....	.....	.....	.....	.....	62093	"
	As found....	.....	15.65	.....	1.33	0.77	17.75	16.98	.....	
513	As guaranteed	.....	.....	.....	16.0	.....	.....	10.0	.....	62094	"
	As found....	.....	.....	.....	15.92	.....	17.81	15.95	.....	
77	As guaranteed	15.0	.....	.....	.....	.....	.....	.....	.....	62095	"
	As found....	15.80	19.20	.....	.....	.....	.....	.....	.....
509	As guaranteed	2.89	3.50	.....	.....	.....	27.43	.....	.....	62096	"
	As found....	3.52	4.28	.....	.....	.....	25.80	.....	.....
1097	As guaranteed	2.08	2.45	11.0	.....	.....	11.0	11.0	10.0	62097	"
	As found....	2.30	2.70	13.30	1.00	0.15	14.45	14.30	10.76		

7 GEORGE V, A. 1917

BULLETIN No. 317—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1915.								
April 1	Two-Blade Brand for Flowers.	62098	Victoria Chem. Co., Victoria.	2 lbs.	6	Vendors.....		
" 1	Two-Blade Brand for Lawns.	62099	" "	2 "	6	"		

DISTRICT OF ALBERTA—

May 28	Fertilizer.....	52168	Swift Can. Co., Edmonton.	1½ lbs.	5	Vendors.....		
" 28	"	52169	" "	1½ "	5	"		
" 28	"	52170	P. Burns & Co., Calgary.	1½ "	5	"		

DISTRICT OF PRINCE EDWARD ISLAND—

May 13	Superphosphate.	60306	Auld Bros. Ltd., Charlottetown.	3 lbs.	...	Amer. Agr. Chem. Co., New York.		
June 1	"	60307	Gill & Lantz, Charlottetown.	3 "	...	Nitrate Agencies, New York.		
" 1	Nitrate of Soda.	60308	Auld Bros. Ltd., Charlottetown.	3 "	...		H. J. Baker Bros., New York.	
" 1	Basic Slag . . .	60309	" "	3 "	...	Cross Fert. Co., Sydney.		
" 4	Superphosphate.	60310	A. Horne & Co., Charlottetown.	3 "	...	Nitrate Agencies, New York.		
" 4	Nitrate of Soda.	60311	Gill & Lantz, Charlottetown.	3 "	...	"		
" 4	" "	60312	A. Horne & Co., Charlottetown.	3 "	...	"		

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total; including that of Nitric Acid or Ammonia if present.	Total; Calculated as Ammonia.	Phosphoric Acid per cent.				
				Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.		
					Total.	Total Available.		
						Potash.		
						Fine ness.		

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1095	As guaranteed	4 0	4 86	10 0	.....	.....	10 0	10 0	8 0	.....	62095	Meets guaranty.
	As found.....	3 92	4 76	13 70	.....	0 09	13 79	13 70	8 62	.....	
1096	As guaranteed	5 0	6 07	10 0	.....	.....	10 0	10 0	5 0	.....	62099	"
	As found.....	4 80	5 84	13 45	.....	0 10	13 55	13 45	5 67	.....	

A. W. R. MARKLEY, INSPECTOR.

1447	As guaranteed	5.34	6.50				11.0	3.0		52168	Meets guaranty.
	As found....	5.52	6.70				12.00	4.08			
1448	As guaranteed	5.76	7.00				9.0	2.0		52169	"
	As found.....	5.82	7.07				9.87	2.90			
431	As guaranteed	6.10	7.40	0.11	9.23	2.31	12.20	9.39	11.0	52170	2% low in phosphoric acid.
	As found.....	6.32	7.68	0.80	7.39	1.97	9.44	7.47	12.21		Nearly meets guaranteed value. Pass.

WM. A. WEEKS, INSPECTOR.

[illegible]

APPENDIX I.

BULLETIN No. 318—MILK IN SMALLER TOWNS AND VILLAGES.

OTTAWA, August 5, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report upon two hundred and nine (209) samples of milk, purchased by our inspectors in various towns and villages throughout Canada in April, May, June and July of this year. This is the third of a series of inspections of the kind, instituted in consequence of widely extended complaint to the effect that, while the cities and larger towns of Canada, as a rule, provide systematic inspection of their milk supply, the smaller towns and villages are not so protected.

The complaint referred to is found to have a basis in fact. Bulletin No. 298 reports upon fifty-nine (59) samples, of which twenty-six (26) are below the legal standard. Bulletin No. 310 reports concerning two hundred and eight (208) samples, of which twenty-one (21) were below legal standard, and sixteen (16) were classed as doubtful.

The results of the present report may be summarized as follows:—

	Samples.
Found genuine (up to standard requirements)	152
“ “ but dirty	12
“ doubtful, as being below standard requirements, but not so definitely as to be judged adulterated	17
“ Adulterated	27
“ so far spoiled as to be unworkable	1
Total	209

When visible and measurable amount of dirt is present in milk, this constitutes adulteration, even though the sample is otherwise genuine. Inasmuch, however, as no quantitative standard in this regard has been fixed, I have not judged these (12) samples as adulterated, but have merely stated a fact. It may be necessary to amend our standards in this matter, so as to positively fix a limit for dirt. This dirt consists of dust, hairs and cow-dung, and is most offensive and objectionable, as well as dangerous to health.

Adulteration of twenty-seven (27) samples consists in notable departure from legal standards in the matter of fat content, non-fat solids, and other data. In nine (9) of these cases, the milk fat, while distinctly less than the legal standard requires (3.25 per cent) is not less than we know to be contained in the milk of certain individual cows, under exceptional conditions, such as improper feeding. The remaining samples (eighteen in number) indicate such marked deviation from standard requirements, as to admit of no recommendation for leniency.

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These are the following:—

Sample Number.	Fat.	Non-fat Solids.
3846.....	2.27	8.95
3852.....	2.47	9.02
3853.....	2.08	9.15
3547.....	1.29	8.82
3550.....	1.32	8.89
3580.....	2.48	9.98
66550.....	2.44	9.26
66558.....	1.54	9.13
67039.....	2.59	9.03
67040.....	2.46	9.23
67042.....	2.30	9.46
67043.....	2.59	9.42
67044.....	2.61	9.27
52180.....	0.74	8.56
66702.....	2.48	9.02
58176.....	2.55	9.01
66707.....	2.67	7.82
66974.....	2.41	7.57

In all but the last two cases, the results of analysis point to removal of milk fat (cream) only; in the last two cases, the abnormally low non-fat solids, indicate addition of water.

I beg to recommend publication of this report as Bulletin No. 318.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

CORRECTION.

BULLETIN No. 301.—WHITE PAINT.

In this bulletin under "remarks and opinion of the Chief Analyst" the word barytes appears. Instead of this word, the term barium sulphate should be used. Barium Sulphate is used as a paint material either as the ground mineral heavy spar or barytes, or as a product of the interaction of barium sulphide and zinc sulphate, which results in the formation of lithopone, a pigment consisting essentially of 30 per cent. of zinc sulphide and of 70 per cent. barium sulphate. This product is commercially known as lithopone and is a greatly more desirable paint material than the pulverized mineral above referred to.

It has been ascertained that it is in this last form (lithopone) that barium sulphate is present in most of the samples reported in Bulletin No. 301.

Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
June 30	Milk	54071	Ed. Rose, Yarmouth.....	1 qt..	5	Vendor	
" 30	"	54072	G. L. Cleaveland, Yarmouth.	1 " ..	5	Unknown	
" 30	"	54073	F. L. Marshall, Yarmouth.	1 " ..	5	Vendor	
July 2	"	54074	W. C. Warrington, Digby.	1 " ..	7	Unknown	
" 2	"	54075	C. J. Young, Digby	1 " ..	7	Vendor	
" 8	"	54076	J. A. Goudrey, Mahone Bay.	1 " ..	7	"	
" 8	"	54077	Mrs. Henry Schnose, Mahone Bay.	1 " ..	7	"	
" 9	"	54078	Willard Wile, Bridge water.	1 " ..	6	"	
" 9	"	54079	C. D. Walker, Bridge water.	1 " ..	7	"	
" 13	"	54080	Geo. Bell, Dartmouth....	1 " ..	8	"	

DISTRICT OF NEW BRUNSWICK—

1915.							
May 28	Milk	66056	J. Warren James, Andover.	1 qt..	10	Vendor	
June 8	" (Whole).	66057	Obder Little, Harvey Station, York Co.	1 " ..	10	"	
" 10	"	66058	Jos. M. McCullough, St. Andrews.	1 " ..	10	"	
" 10	"	66059	J. D. Grimmer, St. Andrews.	1 " ..	10	"	
" 10	"	66060	S. H. Rigby, St. Andrews.	1 " ..	10	Charles Garness, Bayside, St. Croix.	
" 15	Milk	66061	Wm. Durnnin, Norton, Kings Co.	1 " ..	10	Vendor	
" 15	"	66062	C. L. O'Neill, Norton, Kings Co.	1 " ..	10	"	
" 15	"	66063	Bliss Mann, Norton, Kings Co.	1 " ..	10	"	
" 15	"	66064	A. H. Wilcox, Norton, Kings Co.	1 " ..	10	"	
" 16	"	66065	Harry McQuin, Sussex...	1 " ..	10	James McElroy, Sussex.	

DISTRICT OF QUEBEC CITY—

May 3	Lait	56375	Pierre Giguère, Place sans bruit.	1 pte.	12		
" 3	"	56376	Arthur Legard, Place sans bruit.	1 " ..	12		
"	"	56377	Louis Cloutier, Place sans bruit.	1 " ..	12		

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R.*	Cleanliness.		

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.				
.....	1'0320	12'80	4'13	8'67	.....	Dirt present	54071	Genuine, but not clean.
.....	1'0335	13'42	4'12	9'39	.....	"	54072	" "
.....	1'0335	12'52	3'53	8'99	.....	"	54073	" "
.....	1'0290	11'72	3'77	7'95	.....	"	54074	Non-fat solids low, and not clean. Doubtful.
.....	1'0315	15'75	6'86	8'89	.....	"	54075	Genuine, but not clean.
.....	1'0310	13'13	4'23	8'90	.....	"	54076	" "
.....	1'0320	15'22	5'93	9'29	.....	"	54077	" "
.....	1'0320	12'92	4'08	8'84	.....	"	54078	" "
.....	1'0285	13'40	5'75	7'65	.....	"	54079	Non-fat solids low, and not clean. Doubtful.
.....	1'0320	12'65	3'89	8'76	.....	"	54080	Genuine, but not clean.

JOHN C FERGUSON, INSPECTOR.

		p. c.	p. c.	p. c.				
.....	1'0325	13'70	4'78	8'92	.....	Clean.	66056	Genuine.
.....	1'0320	13'12	4'34	8'78	.....	"	66057	"
.....	1'0315	13'20	4'49	8'71	.....	"	66058	"
.....	1'0320	13'14	4'40	8'74	.....	"	66059	"
.....	1'0325	13'27	4'26	9'01	.....	"	66060	"
.....	1'0320	13'40	4'61	8'79	.....	Slight dirt.	66061	"
.....	1'0327	12'51	3'69	8'82	.....	"	66062	"
.....	1'0310	12'07	3'83	8'24	.....	"	66063	"
.....	1'0318	13'00	4'17	8'83	.....	Dirt present	66064	Genuine, but dirty
.....	1'0320	12'65	4'08	8'57	.....	Clean.	66065	"

F. X. W. E. BELAND, INSPECTOR.

.....	1'0320	11'20	2'71	8'49	.....	Dirt present	56375	Fat too low, and dirty.
.....	1'0315	13'82	5'10	8'72	.....	"	56376	Adulterated Genuine, but dirty.
.....	1'0345	14'02	4'29	9'73	.....	Clean	56377	Genuine.

* Immersion Refractometer reading on Milk Serum at 20° C.

7 GEORGE V, A. 1917
BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC CITY—							
1915.							
May	3 Lait.....	56378	Edmond Leclerc, Petite Rivière.	1 pte.	12		
"	3 "	56379	Arthur Giguère, Les Saulds.	1 " ..	10		
"	4 "	55380	Ignace Verret, Rang Sillery.	1 " ..	10		
"	4 "	56381	Joseph Paquet, Rang Sillery.	1 " ..	12		
"	4 "	56382	Jacques Robitaille, Les Saulds.	1 " ..	12		
"	4 "	56383	Michael Denis, Les Saulds.	1 " ..	12		
"	4 "	56384	Meleste Dubuc, Les Saulds.	1 " ..	12		

DISTRICT OF QUEBEC—

May	2 Lait.....	3839	F. X. Demers, St. Malo..	1 Pte.	15		
"	2 "	3846	E. Juneau, St. Malo ..	1 "	15		
"	3 "	3847	F. X. Latulipe, Charlebourg.	1 "	15		
"	7 "	3848	J. X. Dagnault, St. Joseph, Levis.	1 "	15	Vendor.....	
"	8 "	3849	L. Poire, St. Joseph, Levis.	1 "	15	"	
"	10 "	3850	A. Turgeon, St. Joseph, Levis.	1 "	15	"	
"	28 "	3851	O. Samsun, St. Joseph, Levis.	1 "	15	"	
"	11 "	3852	O. Cote, St. Joseph, Levis.	1 "	15	"	
"	12 "	3853	P. Dumas, St. Joseph, Levis.	1 "	15	"	
"	14 "	3854	E. Riviere, Ste. Fois, Quebec.	1 "	15	"	
"	4 "	3547	Arthur Labbe, Ste. Magloire.	1 chop	3		
"	5 "	3550	Jos. Labbe, Ste. Magloire.	1 "	3		
"	7 "	3557	Alfred Gagne, St. Damien	1 "	3		
"	8 "	3564	Marcel Lapierre, Ste. Charle.	1 "	3		
"	8 "	3565	Wilfrid Roy, Ste. Charle	1 "	3		
"	10 "	3571	Andre Audet, Armagh...	1 "	3		
"	10 "	3573	François Cote, Armagh...	1 "	3		
"	10 "	3575	Adolphe Turgeon, Armagh.	1 "	3		
"	10 "	3540	Donat Brochu, Armagh...	1 "	3		
"	10 "	3582	Lucien Bernard, Armagh	1 "	3		

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R *	Cleanliness.		

Concluded.

		p. c.	p. c.	p. c.				
.....	1-0310	13-91	5-23	8-68	.....	Clean	56378	Genuine.
.....	1-0315	12-65	4-10	8-55	.....	"	56379	"
.....	1-0330	13-18	4-32	8-86	.....	Dirty.	56380	" but dirty.
.....	1-0315	13-12	4-26	8-86	.....	Clean.	56381	"
.....	1-0285	19-32	11-22	8-10	.....	Dirt present.	56382	" but dirty.
.....	1-0325	12-40	3-82	8-58	.....	Clean.	56383	"
.....	1-0320	14-30	5-18	9-12	.....	"	56384	"

J. E. AUDET, O. BROCHU, N. CADIEUX, T. GENDREAU, TEMPORARY INSPECTORS.

.....	1-0303	11-69	2-79	8-83	42-2	Clean	3839	Fat too low. Adulterated.
.....	1-0315	11-22	2-27	8-95	42-2	"	3846	"
.....	1-0321	12-23	2-81	9-42	43-5	"	3847	"
.....	1-0311	12-35	3-35	9-00	43-8	"	3848	Genuine.
.....	1-0312	12-91	3-75	9-16	42-1	"	3849	"
.....	1-0311	13-53	4-39	9-14	42-9	"	3850	"
.....	1-0314	12-48	3-32	9-16	42-5	"	3851	"
.....	1-0292	11-49	2-47	9-02	43-8	"	3852	Fat too low. Adulterated.
.....	1-0297	11-23	2-08	9-15	42-9	"	3853	"
.....	1-0290	11-82	2-79	9-03	42-5	"	3854	"
.....	1-0321	10-11	1-29	8-82	43-3	"	3857	Fat much too low. Adulterated.
.....	1-0315	10-21	1-32	8-80	42-9	"	3856	"
.....	1-0319	14-32	4-61	9-08	44-7	"	3857	Genuine.
.....	1-0296	11-06	2-78	8-88	43-1	"	3861	Fat too low. Adulterated.
.....	1-0285	11-04	2-83	8-91	43-0	"	3862	"
.....	1-0291	12-97	3-84	9-13	43-6	"	3871	Genuine.
.....	1-0331	12-06	3-00	9-06	43-2	"	3872	"
.....	1-0310	13-29	4-12	9-17	43-2	"	3873	"
.....	1-0342	12-46	2-48	9-38	44-3	"	3880	Fat too low. Adulterated.
.....	1-0304	16-06	6-51	9-57	44-4	"	3882	Genuine.

*Immersion refractometer reading on milk serum at 20° C.

7 GEORGE V, A. 1917

BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1915.							
April 29	Lait..	277	François Lebeau, St. Jerome.	1 chop	5	.....	.....
" 29	"	278	Hyacinthe Bastien, St. Jerome.	1 "	5	.....	.....
" 29	"	279	Exalephat Marcotte, St. Jerome.	1 "	5	.....	.....
May 4	"	288	Wilfred Groux, Ste Agathe des Monts.	1 "	5	.....	.....
" 4	"	289	Fidime Baulme, Ste Agathe des Monts.	1 "	5	.....	.....
April 24	"	2757	Jos. Gaye, Montmagny..	1 pte.	7	Vendor.....	.....
" 24	"	2758	Louis Fetu, St. Thomas..	1 "	7	"	.....
" 24	"	2759	Adelard Ganiach, Montmagny.	1 "	7	"	.....
" 26	"	2760	Jos. Beaumont, St. Thomas.	1 "	7	"	.....
" 26	"	2761	Eg. Bernatchez, Montmagny.	1 "	7	"	.....

DISTRICT OF THREE RIVERS—

May 3	Milk.....	67948	Ludger Peltier, Joliette..	1 qt.	6	Vendor.....	.....
" 3	"	67949	Joseph Coderre.....	1 "	6	De Blais & Ducharme St. Ch. Borromee.	.....
" 3	"	67950	Dolphis Perraut, Joliette.	1 "	6	J. L. Basinet, St. Paul de Joliette.	.....
" 3	"	67951	Samuel Vessot, "	1 "	6	Vendor.....	.....
" 3	"	67953	Napoleon Coutu, "	1 "	6	Nadeau & Jetti, St. Chas. Borromee.	.....
" 5	"	67954	I. H. Coulombe, Berthierville.	1 "	6	Vendor .....	.....
" 6	"	67955	Xavier Piche, "	1 "	6	"	.....
" 22	"	67956	Raoul Lorrain, Charlemagne.	1 "	6	"	.....
" 22	"	67964	Egide Leveille, St. Paul L'Ermite.	1 "	10	"	.....
" 26	"	69104	I. Ed. Anyrault, L'Epi-phanie.	1 "	6	"	.....

DISTRICT OF EASTERN TOWNSHIPS—

May 26	Milk.....	57956	J. O. Roy, Magog..	1 qt..	5	.....	.....
" 26	"	57957	Delphis Dupuis, Magog.	1 "	5	.....	.....
" 26	"	57958	Joseph Thisdell, Magog..	1 "	5	.....	.....
" 26	"	57959	William Chaput, Magog..	1 "	5	.....	.....

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R*.	Cleanliness.		
Concluded.								
.....	1·0319	13·28	4·13	9·15	44·3	Clean ..	277	Genuine.
.....	1·0310	13·42	4·52	8·90	43·8	" ...	278	"
.....	1·0319	13·04	3·89	9·15	44·1	" ...	279	"
.....	1·0326	12·07	2·95	9·12	43·7	" ...	288	Fat slightly low, pass as doubtful.
.....	1·0294	13·04	4·29	8·75	42·6	" ..	289	Genuine.
.....	1·0317	12·36	3·55	8·81	43·4	" ..	2757	"
.....	1·0320	14·12	4·75	9·37	43·8	" ..	2758	"
.....	1·0319	13·73	4·44	9·29	43·3	" ..	2759	"
.....	1·0302	13·47	4·35	9·12	41·7	" ..	2760	"
.....	1·0293	12·82	4·26	8·56	42·0	" ..	2761	"

Dr. V. P. LAVALLEE, INSPECTOR.

.....	1·0314	12·55	3·42	9·13	43·2	Clean ..	67948	Genuine.
.....	1·0315	12·20	3·13	9·07	42·7	" ..	67949	"
.....	1·0299	11·80	3·07	8·73	43·2	" ..	67950	"
.....	.....	.....	.....	.....	.....	" ..	67951	Not worked.
.....	1·0276	11·99	3·47	8·52	41·8	" ..	67953	Genuine.
.....	1·0300	12·16	2·97	9·19	44·2	" ..	67954	Fat slightly low, pass as doubtful.
.....	1·0282	12·22	3·05	9·17	44·0	" ..	67955	Genuine.
.....	1·0248	14·34	5·33	9·01	43·0	" ..	67956	"
.....	1·0267	14·44	5·43	9·01	42·6	" ..	67954	"
.....	1·0314	12·47	2·78	9·69	43·3	" ..	68104	Fat too low Adulterated.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1·0308	13·33	4·11	9·22	43·0	Clean.	57906	Genuine.
.....	1·0277	11·15	3·21	7·94	40·1	"	57957	Non-fat solids slightly low Doubtful
.....	1·0316	12·74	3·59	9·15	44·1	"	57958	Genuine
.....	1·0315	13·10	4·03	9·07	43·3	"	57959	"

*Immersion Refractometer reading on Milk Serum at 20° C.

†Received in condition unfit for analysis.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1915.							
May 26	Milk.....	57960	Aleide Goudreau, Magog.	1 qt..	5		
" 26	"	57961	Henri Chagnon, Magog..	1 " ..	5		
" 27	"	57962	L. B. Duquette, Megantic.	1 " ..	6		
" 27	"	57963	Alphonse Boyer, Megantic.	1 " ..	6		
" 27	"	57964	Auguste Duquette, Megantic.	1 " ..	6		
" 27	"	57965	G. M. McClure, Megantic.	1 " ..	6		Adolphe Lemay, Megantic.

DISTRICT OF VALLEYFIELD—

June 10	Milk.....	58178	O. Robert, Farnham....	1 qt..	6		
" 10	"	58179	A. D. Labrecque, Farnham.	1 " ..	6		
" 10	"	58180	Noah Chevalier, Farnham.	1 " ..	6		
" 10	"	58181	J. Molson, Farnham....	1 " ..	6		
" 17	"	58182	Z. Belisle, Longueuil....	1 " ..	8		
" 17	"	58183	A. Trudeau, Longueuil...	1 " ..	8		
" 17	"	58184	N. Aubin, Longueuil....	1 " ..	8		
" 17	"	58185	J. Lajeunesse, Longueuil.	1 " ..	8		
May 19	"	58176	John A. McDonald, Alexandria.	1 " ..	5		
" 19	"	58177	Geo. A. Charlebois, Alexandria.	1 " ..	5		

DISTRICT OF MONTREAL—

May 19	Milk.....	67191	R. Blain, 1055 Lajoie st., Outremont.	1 qt..	8		A. C. Struthers....
" 19	"	67192	John McEwen, 2826 Hutcheson st., Outremont.	1 " ..	8	Vendor.	
" 19	"	67193	Jos. Deneau, 1641 Van Horne ave., Outremont.	1 " ..	8		E. H. Drolet
" 19	"	67194	A. Normandeau, 1199 Van Horne ave., Outremont.	1 " ..	8		J. J. Joubert
" 19	"	67195	L. J. Chalifon, 785 Bloomfield ave., Outremont.	1 " ..	9		Mr. Quenville....
" 20	"	67196	Westminster Prov. Stores, 58 Westminster ave., Montreal W.	1 " ..	10		C. G. Hall.....

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R.*	Cleanliness.		
<i>Concluded.</i>								
.....	1·0312	12·18	3·34	8·84	43·2	Clean.	57960	Genuine.
.....	1·0310	12·93	3·74	9·19	43·5	"	57961	"
.....	1·0281	12·30	3·46	8·84	42·4	"	57962	"
.....	1·0301	13·56	4·43	9·13	44·6	"	57963	"
.....	1·0306	12·95	3·73	9·22	43·9	"	57964	"
.....	1·0310	12·67	2·97	9·10	44·0	"	57965	Fat slightly low. Pass as doubtful.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1·0315	12·72	3·45	9·27	43·6	Clean.	58178	Genuine.
.....	1·0307	13·27	3·95	9·32	44·4	"	58179	"
.....	1·0283	13·20	4·24	8·96	43·4	"	58180	"
.....	1·0287	12·44	3·66	8·78	42·0	"	58181	"
.....	1·0307	11·82	2·96	8·86	41·8	"	58182	Fat slightly low. Pass as doubtful.
.....	1·0307	12·37	3·30	9·07	42·4	"	58183	Genuine.
.....	1·0311	13·06	3·99	9·07	42·8	"	58184	"
.....	1·0305	12·31	3·38	8·93	43·0	"	58185	"
.....	1·0320	11·56	2·55	9·01	43·0	"	58176	Fat too low. Adulterated.
.....	1·0320	12·65	3·42	9·23	43·0	"	58177	Genuine.

D. J. KEARNEY, INSPECTOR.

.....	1·0314	12·74	3·64	9·10	42·5	Clean.	67191	Genuine.
.....	1·0308	12·47	3·40	9·07	43·3	"	67192	"
.....	1·0304	12·60	3·46	9·14	43·6	"	67193	"
.....	1·0305	12·90	3·73	9·17	43·9	"	67194	"
.....	1·0311	12·64	3·46	9·18	44·0	"	67195	"
.....	1·0307	13·07	3·97	9·10	43·0	"	67196	"

* Immersion Refractometer reading on milk serum at 20° C.

7 GEORGE V, A. 1917

BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1915.							
May 20	Milk.....	67197	A. E. Collins, 44 Westminster ave., Montreal W.	1 qt..	9	.....	W. H. Bradley...
" 20	"	67198	Limoges Bros., 2000 Hutcheson st., Outremont.	1 "	8	.....	Mr. Lemire
" 20	"	67199	A. Gadbois, 2298 Hutcheson st., Outremont.	1 "	6	...	H. Lecavalier
" 20	"	67200	P. Clarest, 1150 Lajoie st., Outremont.	1 "	8	.....	Hydreine Pure Milk Co.

DISTRICT OF OTTAWA—

April 22	Milk....	63613	Beekwith Dairy, Smith's Falls.	1 qt..	10	Vendors.....	.....
" 22	"	63614	Rideau Dairy, Smith's Falls.	1 "	10	" .....	.....
" 22	"	63615	J. E. Edmunds, Smith's Falls.	1 "	10	Vendor .....	.....
" 24	"	63616	W. A. Gogo, Morrisburg.	1 "	10	" .....	.....
" 24	"	63617	S. J. Casselman, Morrisburg.	1 "	10	" .....	.....
" 24	"	63619	James McKenzie, Morrisburg.	1 "	10	" .....	.....
" 24	"	63620	M. L. Casselman, Morrisburg.	1 "	10	" .....	.....
" 26	"	63622	S. Holmes, Renfrew.....	1 "	10	" .....	.....
" 27	"	63623	M. J. O'Brien, Renfrew..	1 "	10	" .....	.....
" 27	"	63626	Jas. Shields, Renfrew....	1 "	10	" .....	.....

DISTRICT OF KINGSTON—

Apr. 26	Milk.....	66549	Wm. Simms, Bath Road.	1 qt..	7	Vendor .....	.....
" 27	"	66550	Fred Lovelace, Yarker..	1 " ..	5	" .....	.....
" 27	"	66551	Manson Lee, Yarker.....	1 " ..	5	" .....	.....
" 27	"	66552	J. S. Brown, Yarker.....	1 " ..	5	" .....	.....
" 27	"	66553	John Kimberly, Yarker..	1 " ..	5	" .....	.....
" 27	"	66554	R. Cure, Yarker.....	1 " ..	5	" .....	.....
" 27	"	66555	George Lee, Yarker	1 " ..	5	" .....	.....
" 27	"	66556	James Warner, Yarker..	1 " ..	5	" .....	.....
" 27	"	66557	Damon Carroll, Yarker..	1 " ..	5	" .....	.....
" 27	"	66558	Joman Silver, Yarker....	1 " ..	5	" .....	.....

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R.*	Clearness.		

Concluded.

		p. c.	p. c.	p. c.				
.....	1-0287	14.37	5.64	8.73	42.8	Clean.	67197	Genuine.
.....	1-0323	12.00	2.76	9.24	43.2	"	67198	Fat too low. Adulterated.
.....	1-0248	18.27	9.93	8.34	41.8	"	67199	Genuine.
.....	1-0315	12.70	3.44	9.26	42.0	"	67200	"

J. A. RICKEY, INSPECTOR.

.....	1-0302	11.66	3.17	8.49	42.2	Clean.	63613	Genuine.
.....	1-0305	11.45	3.99	8.46	42.0	"	63614	"
.....	1-0309	11.50	2.91	8.59	42.7	"	63615	Fat slightly low. Pass as doubtful.
.....	1-0304	12.16	3.56	8.60	43.2	"	63616	Genuine.
.....	1-0312	11.71	2.99	8.72	42.7	"	63617	Fat slightly low. Pass as doubtful.
.....	1-0277	14.18	5.94	8.24	42.4	"	63619	Genuine.
.....	1-0302	12.02	3.38	8.64	42.7	"	63620	"
.....	1-0290	12.07	3.70	8.37	42.4	"	63622	"
.....	1-0293	13.16	4.58	8.58	42.7	"	63623	"
.....	1-0303	12.27	3.60	8.67	43.3	"	63626	"

JAMES HOGAN, INSPECTOR.

.....	1-0290	11.00	2.87	8.13	40.2	Clean	66549	Fat too low; also non fat solids. Adulterated.
.....	1-0305	12.70	2.44	9.26	45.0	"	66550	Fat too low. Adulterated.
.....	1-0315	12.58	3.61	8.97	43.6	"	66551	Genuine.
.....	1-0314	13.18	4.14	9.04	43.7	"	66552	"
.....	1-0313	12.95	3.87	9.08	44.0	"	66553	"
.....	1-0282	13.98	5.67	8.31	42.2	"	66554	"
.....	1-0336	12.59	3.26	9.33	43.0	"	66555	"
.....	1-0312	12.33	3.47	8.86	43.5	"	66556	"
.....	1-0320	13.51	4.03	9.48	44.8	"	66557	"
.....	1-0341	10.67	1.54	9.13	43.7	"	66558	Fat much too low. Adulterated.

* Immersion refractometer reading on milk serum at 20° C.

7 GEORGE V, A. 1917

BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1915.							
May 11	Milk.....	67039	W. Lewis, Stouffville....	1 qt..	7	Farmers, Stouffville.	
" 11	"	67040	Ira Russell, Stouffville....	1 " ..	7	D. H. Russell, Stouffville.	
" 11	"	67041	H. Lilley, Markham....	1 " ..	6	Vendor	
" 12	"	67042	W. C. Hogg, Uxbridge...	1 " ..	7	"	
" 12	"	67043	N. R. Phair, Uxbridge...	1 " ..	7	"	
" 12	"	67044	Chas. McArthur, Port Perry.	1 " ..	6	George Lyle, Port Perry.	
" 13	"	67045	J. & A. Jardine, Beaver-ton.	1 " ..	6	Vendor.....	
" 14	"	67046	H. Fallowfield, Waubashene.	1 " ..	6	"	
" 15	"	67047	H. Hilcox & Sons, Midland	1 " ..	6	"	
" 15	"	67048	C. A. Scott	1 " ..	8	"	
" 14	"	67061	J. B. Jamieson, Orillia...	1 " ..	8	Vendor and neighbour.	

DISTRICT OF HAMILTON—

April 27	Milk.....	66968	W. B. Mitchell, Fergus..	1 qt .	6	Vendor	
" 27	"	66969	A. Howalt, Fergus.....	1 " .	6	"	
" 27	"	66970	T. H. Brown, Palmerston	1 " .	8	"	
" 28	"	66971	Geo. Beley, Mt. Forest...	1 " .	7	"	
" 28	"	66972	E. C. Callaway, Mt. Forest	1 " .	8	"	
" 28	"	66973	Geo. Davidson, Mt. Forest	1 " .	7	"	
" 29	"	66974	N. Oppertshauser, Mildmay.	1 " .	7	Vendor and a neighbour.	
" 30	"	66975	G. W. Vandervet, Chasley	2 pts.	7	" "	
May 4	"	66976	J. W. Wilson, Oakville...	1 qt .	8	John Wilson, Jr., Oakville.	
" 4	"	66977	S. G. Powley, Oakville...	1 " .	8	Biger Bros. & G. H. King, Oakville.	

DISTRICT OF WINDSOR—

May 4	Milk.....	54607	Thos. Bolton, R.R. No. 2, Mandamin.	1 qt .	Nil.	Vendor	
" 4	"	54638	Ph. Roberts, Sarnia Tunnel.	3 Bots	"	"	
" 4	"	54609	Josiah Smith, Sarnia	3 " .	5	"	
" 4	"	54610	R. Kenleer, R.R. No. 1, Sarnia.	3 " .	5	"	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total solids.	Fat.	Non-fat Solids.	R.*	Cleanliness.		

H. J. DAGER, INSPECTOR.

		p.c.	p.c.	p.c.				
.....	1 0305	11.62	2.59	9.03	42.8	Clean.	67039	Fat too low. Adulterated.
.....	1 0307	11.69	2.46	9.23	43.0	"	67040	" "
.....	1 0280	11.12	2.87	8.25	40.0	"	67041	Fat too low; also non-fat solids. Doubtful.
.....	1 0331	11.76	2.30	9.46	43.8	"	67042	Fat too low. Adulterated.
.....	1 0318	12.01	2.59	9.42	43.4	"	67043	" "
.....	1 0303	11.88	2.61	9.27	42.5	"	67044	" "
.....	1 0310	11.62	2.87	8.75	42.9	"	67045	Doubtful.
.....	1 0333	12.68	3.22	9.46	43.7	"	67046	Genuine.
.....	1 0331	13.47	3.87	9.60	44.6	"	67047	"
.....	1 0262	11.76	3.99	7.77	38.9	"	67048	Non-fat solids low. Doubtful.
.....	1 0289	12.74	3.47	9.27	43.7	"	67061	Genuine.

H. J. DAGER, ACTING INSPECTOR.

.....	1 0306	12.96	4.13	8.83	43.3	Clean.	66968	Genuine
.....	1 0315	12.83	3.87	8.96	43.0	"	66969	"
.....	1 0312	11.99	3.37	8.62	42.3	"	66970	"
.....	1 0327	13.36	4.02	9.34	45.0	"	66971	"
.....	1 0298	11.85	3.28	8.57	42.7	"	66972	"
.....	1 0293	11.09	2.95	8.14	40.6	"	66973	Fat slightly low; also non-fat solids. Doubtful.
.....	1 0274	9.98	2.41	7.57	38.4	"	66974	Fat too low; also non-fat solids adulterated.
.....	1 0310	11.81	3.11	8.70	41.4	"	66975	Genuine.
.....	1 0321	12.61	3.48	9.13	43.3	"	66976	"
.....	1 0316	11.79	3.00	8.79	42.0	"	66977	"

JOHN TALBOT, INSPECTOR.

.....	1 0316	13.71	4.31	9.20	44.0	Clean.	54087	Genuine.
.....	1 0305	12.67	3.78	8.80	43.0	"	54088	"
.....	1 0327	13.21	3.81	9.40	45.2	"	54089	"
.....	1 0316	12.05	3.15	8.90	43.3	"	54090	"

Immersion Refractometer reading on Milk Serum at 20° C.

14—16A

7 GEORGE V, A. 1917
BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1915.							
May	4	Milk.....	54611 R. B. Bauthamer, Sarnia.	3 bots.	5	John McGuiness, Field & Parson, Sarnia Genl. Delivery.	
"	4	"	54612 A. Hughes, R.R. No. 2, Sarnia.	3 "	Nil.	Vendor	
"	5	"	54616 D. Evans, Petrolia.....	3 "	6	"	
"	5	"	54617 F. Stinson, Petrolia	3 "	5	.....	Mr. Prudine & Mr. Irwin, Petrolia.
"	5	"	54618 R. H. Drope, Petrolia....	3 "	Nil.	Vendor.....	

DISTRICT OF MANITOBA—

May	19	Milk	61301 M. L. McDonald, Minnedota.	1 qt.	10	Vendor.....	
"	19	"	61302 Rex Dyer, Minnedosa...	1 "	10	"	
"	19	"	61303 C. E. Lawson, Minnedosa	1 "	10	"	
"	21	"	61304 Crescent Creamery Co., Winnipeg.	1 "	10	.....
"	21	"	61305 Sturgeon Creek Dairy, St. James.	1 "	10	.....
"	21	"	61306 E. Goodchild, St. James.	1 "	10	.....
"	26	"	61307 J. E. Redmond, Souris..	1 "	nil.	.....
"	27	"	61308 H. Nesbitt, " ..	1 "	10	.....
"	27	"	61309 J. T. English, " ..	1 "	nil.	.....
"	27	"	61310 James McCulloch, " ..	1 "	"	.....
"	27	"	61323 J. E. Redmond. " ..	1 "	10	.....

DISTRICT OF SASKATCHEWAN—

April	20	Milk.	66360 S. G. Johnston, Gull Lake	1 qt.	10	Vendor.	
"	29	"	66366 P. C. Colquham, Maple Creek.	1 "	10	"	
"	29	"	66367 E. J. Ferraley, Maple Creek.	1 "	10	"	
May	4	"	66378 W. H. Keys, Pense....	1 "	10	"	
"	4	"	66379 E. C. Dyers, "	1 "	10	"	
"	4	"	66380 W. Dawson, "	1 "	10	"	
"	5	"	66384 M. Wilkenson, Lumsden..	1 "	10	"	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R*	Cleanliness.		

Concluded.

		p.c.	p.c.	p.c.				
.....	1-0314	12.93	3.88	9.05	42.5	Clean ..	54611	Genuine.
.....	1-0288	15.01	5.69	9.32	44.0	" ..	54612	"
.....	1-0322	12.42	3.36	9.06	44.2	" ..	54616	"
.....	1-0321	12.27	3.22	9.05	43.6	" ..	54617	"
.....	1-0299	13.35	4.60	8.75	42.5	" ..	54618	"

A. C. LARIVIERE, INSPECTOR.

.....	1-0305	12.27	3.53	8.74		Clean ..	61301	Genuine
.....	1-0321	12.49	3.71	8.78		" ..	61302	"
.....	1-0308	12.17	3.40	8.77		" ..	61303	"
.....	1-0297	12.28	3.76	8.52		" ..	61304	"
.....	1-0297	11.93	3.12	8.81		" ..	61305	"
.....	1-0290	13.04	4.07	8.97		" ..	61306	"
.....	1-0296	13.08	4.12	8.96		" ..	61307	"
.....	1-0310	13.08	3.83	9.25		" ..	61308	"
.....	1-0303	12.75	3.74	9.01		" ..	61309	"
.....	1-0307	13.08	3.90	9.18		" ..	61310	"
.....	1-0298	13.83	4.10	9.73		" ..	61328	"

L. H. HALL, INSPECTOR.

.....	1-0318	12.57	3.30	9.21	43.2	Clean ..	60360	Genuine
.....	1-0208	13.68	5.33	8.35	41.3	" ..	60366	"
.....	1-0303	14.15	5.08	9.07	41.5	" ..	60367	"
.....	1-0324	12.93	3.66	9.27	43.8	" ..	60378	"
.....	1-0334	12.71	3.29	9.42	43.5	" ..	60379	"
.....	1-0307	11.93	3.07	8.80	43.2	" ..	60386	"
.....	1-0321	12.22	3.25	8.97	43.2	" ..	60384	"

* Immersion Refractometer reading on Milk Serum at 20°C.

7 GEORGE V, A. 1917

BULLETIN No. 318--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN--

1915.							
May	5	Milk.....	66385 F. H. Cochrane, Lumsden	1 qt..	10	Vendor.....	
"	7	"	66390 J. E. Steele, Drinkwater.	1 "	10	"	
"	7	"	66391 R. McConnell, Drinkwater.	1 "	10	"	

DISTRICT OF ALBERTA--

June	9	Milk.....	52172 John Whitney, Langdon.	1 qt..	10	Vendor.....	
"	10	"	52173 Katherine Stephens.....	1 "	10	"	
"	10	"	52174 Hugh Williams, Strathmore.	1 "	10	"	
"	11	"	52175 Jos. Botton, Strathmore..	1 "	10	"	
"	12	"	52176 C. A. Millie, Gleichen. .	1 "	10	"	
"	12	"	52177 Wm. Walsh, Gleichen. .	1 "	10	"	
"	12	"	52178 Mrs. W. R. Payne, Gleichen	1 "	10	"	
"	14	"	52179 Geo. Yates, Bassano. . .	1 "	10	"	
"	14	"	52180 Albert Davies, Brooks. . .	1 "	10	"	
"	15	"	52181 Norman Stafford, Brooks.	1 "	10	"	

DISTRICT OF ROCKY MOUNTAINS--

April	26	Milk.....	61796 A. Schnaebele, Trail.....	qt.	10	Vendor.....	
"	26	"	61797 J. Quinstrom, Trail.....	1 "	10	"	
"	26	"	61798 J. Hintz, Trail	1 "	10	"	
May	20	"	61808 Atchisons Dairy, Cranbrook.	1 "	10	"	
"	20	"	61809 T. E. Austin, Cranbrook	1 "	10	"	
"	20	"	61810 W. B. Bardgeth, Cranbrook.	1 "	10	"	
June	10	"	61825 R. A. Upper, Revelstoke.	1 "	10	"	
"	10	"	61826 C. Granstrom, Revelstoke.	1 "	10	"	
"	10	"	61827 A. G. Carlson, Revelstoke.	1 "	10	"	

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expres- sion of opinion)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20°C.	Total Solids.	Fat.	Non-fat Solids.	R*	Cleanliness.		

Concluded.

		p. c.	p. c.	p. c.				
.....	1.0266	14.47	6.30	8.17	41.1	Clean...	66385	Genuine.
.....	1.0318	12.22	3.03	9.19	41.4	" ..	66390	
.....	1.0294	12.59	3.82	8.77	40.7	" "	66391	"

A. W. R. MARKLEY, INSPECTOR.

Sold in sealed bottles.	1.0307	11.47	3.48	7.99	40.1	.....	52172	Non-fat solids slightly low.
" bulk	1.0344	13.71	3.98	9.73	.....	.....	52173	Pass as doubtful.
" sealed bottles.	1.0311	13.44	4.44	9.00	.....	.....	52174	Genuine.
" "	1.0327	12.38	3.31	9.07	43.3	.....	52175	"
" bulk	1.0315	12.01	3.29	8.72	43.3	.....	52176	"
" bulk & bottles.	1.0304	13.09	4.27	8.82	.....	.....	52177	"
" "	1.0332	13.27	3.91	9.36	.....	.....	52178	"
" "	1.0318	13.18	3.98	9.20	.....	.....	52179	"
" bulk	1.0332	9.30	0.74	8.56	41.2	.....	52180	Fat very low. Adulterated.
" sealed bottles.	1.0329	14.40	4.77	9.63	.....	.....	52181	Genuine.

THOS. PARKER, INSPECTOR.

.....	1.0249	17.43	8.77	8.66	43.1	.....	61798	Genuine.
.....	1.0313	13.26	4.12	9.14	43.8	.....	61799	"
.....	1.0286	12.47	3.60	8.88	42.2	.....	61799	"
.....	1.0315	14.40	6.46	8.94	.....	.....	61800	"
.....	1.0380	13.67	4.56	9.12	.....	.....	61800	"
.....	1.0325	12.94	4.28	8.66	.....	.....	61819	"
.....	1.0391	12.08	3.89	8.72	.....	.....	61825	"
.....	1.0313	12.49	3.46	9.03	.....	.....	61826	"
.....	1.0306	12.79	3.67	9.12	.....	.....	61827	"

*Immersion Refractometer reading on Milk being at 20°C.

7 GEORGE V, A. 1917
BULLETIN No. 318—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1915.							
June	2	Milk.	55285 Eburne Dairy, Eburne.	1 qt. . .	10	Vendor	
"	2	"	55286 Eburne Creamery, Eburne.	1 " . .	10	D. McKay, Lulu Island.	
"	2	"	55287 J. M. Steves, Steveston.	1 " . .	10	Vendor	
"	4	"	55288 Chas. Hawthorne, Chilliwack.	1 " . .	10	"	
"	4	"	55289 Chilliwack Creamery, Chilliwack.	1 " . .	10	"	
"	4	"	55290 Chas. Robinson, Mission.	1 " . .	10	"	
"	4	"	55291 Mrs. H. Windebank, Mission.	1 " . .	10	"	
"	5	"	55292 A. Davie, Ladner.	1 " . .	10	"	
"	7	"	55293 Port Coquitlam Dairy Co., Port Coquitlam.	1 " . .	10	Minnekadda Ranch, Port Coquitlam.	
"	9	"	55294 H. Bradshaw, White Rock.	1 " . .	10	Vendor	

DISTRICT OF VICTORIA—

May	19	Milk.	66701 James Watson, Harward, Nanaimo.	1 qt. . .	10		
"	19	"	66702 Wm. Reynolds, Protection Island, Nanaimo.	1 " . .	10		
"	19	"	66703 J. J. Dickinson, Harward, Nanaimo.	1 " . .	10		
"	19	"	66704 John Watson, Harward, Nanaimo.	1 " . .	10		
"	19	"	66705 Geo. Rains, Delta, Cranberry District, V.I.	1 " . .	19		
"	19	"	66706 T. L. Brown, East Wellington, Mountain Dist.	1 " . .	10		
"	20	"	66707 Louis Grouhel, Lady-smith.	1 " . .	10		
"	20	"	66708 W. A. Gosier, Lady-smith.	1 " . .	10		
"	20	"	66709 John Ramont, Duncans, V.I.	1 " . .	10		

SESSIONAL PAPER No. 14

MILK.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 20° C.	Total Solids.	Fat.	Non-fat Solids.	R.*	Cleanliness.		

E. J. MORGAN, INSPECTOR.

		p. c.	p. c.	p. c.				
.....	1.0312	12.34	3.61	8.73	.....	.....	55285	Genuine.
.....	1.0295	11.42	3.23	8.19	40.0	.....	55286	Non-fat solids low. Doubt- ful.
.....	1.0327	12.21	2.92	9.29	.....	.....	55287	Fat slightly low. Pass as doubtful.
.....	1.0317	13.50	4.33	9.17	.....	.....	55288	Genuine.
.....	1.0313	12.90	3.86	9.04	.....	.....	55289	"
.....	1.0296	13.13	4.35	8.78	.....	.....	55290	"
.....	1.0327	14.24	4.58	9.66	.....	.....	55291	"
.....	1.0315	13.00	3.83	9.17	.....	.....	55292	"
.....	1.0302	11.71	3.57	8.14	40.2	.....	55293	Non-fat solids low. Doubt- ful.
.....	1.0325	12.68	3.71	8.97	.....	.....	55294	Genuine.

D. O'SULLIVAN, INSPECTOR.

.....	1.0257	18.29	9.85	8.44	.....	.....	66701	Genuine.
.....	1.0334	11.50	2.48	9.02	42.0	.....	66702	Fat low. Adulterated
.....	1.0315	12.76	3.89	8.87	.....	.....	66703	Genuine.
.....	1.0277	14.33	5.96	8.37	.....	.....	66704	"
.....	1.0323	12.70	3.91	8.79	.....	.....	66705	"
.....	1.0306	12.71	3.99	8.72	.....	.....	66706	"
.....	1.0280	10.49	2.67	7.82	38.3	.....	66707	Solids too low. Adulterated
.....	1.0301	11.70	3.28	8.42	41.1	.....	66708	Genuine.
.....	1.0316	12.40	3.68	8.72	41.5	.....	66709	"

* Immersion Refractometer reading on Milk Serum at 20° C.

SESSIONAL PAPER No. 14

APPENDIX J.

BULLETIN No. 319—CHOP FEED.

OTTAWA, August 7, 1915.

J. U. VINCENT, ESQ.,
Deputy Minister Inland Revenue,

SIR,—I beg to hand you a report upon one hundred and forty nine (149) samples purchased as Chop Feed during January, February and March of this year.

With this name (Chop Feed) I have identified the article sold as *Moulée*, *Proven-der*, *Provende*, grains *conceassé*, but it is to be noted that *Moulée* is the only one of these terms which has legal recognition as a synonym for Chop Feed.

The legal standard for Chop Feed is as follows:

Protein, at least 10 per cent.
Fat, at least 2 per cent.
Fibre, at most 10 per cent.

The Act, however, provides that a deficiency of not more than one per cent in protein or fat; or an excess of not more than two per cent of fibre shall not be held as evidence of fraudulent intent, provided that the total value of the article in nutritive material is substantially equivalent to the standard value.

By an Order in Council of 3rd May, 1911, it is further required that Chop Feed shall be free from vital seeds of noxious weeds.

As judged by these requirements I find the samples now reported to be as follows:

	Samples.
Meet standard (or guaranteed) value	114
Passed, as reasonably close to this standard	11
Adulterated, as low in value	24
Total	149

The above classification has regard only to the nutritive or feeding value of the article.

Twenty-four samples are found to contain vital weed seeds in excess. With one exception, these samples possess satisfactory value as nutrients. They are, nevertheless, adulterated in a legal sense, as failing to meet the requirements of the Order in Council above referred to.

There can be no doubt that the spread of noxious weeds, through preventable distribution of their vital seeds, is a great evil, and calls for every attention on the part of those departments of the government which are entrusted with the administration of Acts in its regard. The Department of Agriculture, in charge of the Seed Control Act, has listed those weed species which are to be regarded as *noxious*, and has established the following quantitative limits:—

(a) For seeds of oats, barley, wheat, or other seeds similar in size, one weed seed in one pound avoirdupois.

(b) For seeds of flax, millet, or other seeds similar in size, one weed seed in one ounce avoirdupois.

(c) For seed of white clover and grasses, five weed seeds in one ounce avoirdupois.

In this connection, I may quote as follows, from the text of Bulletin No. 254 of this department:

"It is to be kept in mind that these regulations apply to seeds intended to be applied directly to the land. In the case of cattle feeds, the vital weed seeds are presumably applied to the soil only after they have passed through the alimentary tract of the animals to which they are fed, and it is reasonable to suppose that their vitality will be greatly affected in the processes of digestion.

"The only experimental data available to me directed to the determination of the vitality of seeds which have been fed to animals is contained in a report published as Bulletin No. 128 of the Maryland Agricultural Experiment Station, College Park, Md., in June, 1908.

This valuable study of the question is briefly presented in the following summary:—

SUMMARY.

The above results were obtained through experiments concerning the vitality of weed seeds under the influence of their distribution by manure along two different lines: namely, the effect of fermenting manure on the vitality of weed seeds (seeds introduced through bedding) and the effect upon the vitality of weed seeds after passing through the digestive channel of domestic animals (seeds fed to animals).

The first part of the experiment was accomplished so as to cover the condition where manure remains for six months in a barnyard, pound or pile. The second covered conditions where the manure remained on piles for a short while, as when shipped by carload lots from cities.

From the above results the following conclusions seem justified:—

1st. When manure is allowed to ferment in piles for 6 months no danger of distributing weed seeds is incurred.

2nd. When manure is allowed to remain in piles and undergoing partial fermentation, little danger of distribution is incurred.

The second part of the experiment which dealt with the effect upon the vitality of weed seeds after passing through the digestive channels of domestic animals was accomplished so as to bring about three existing conditions:—

1st. Manure hauled direct from the stable to the field as a top dressing and left there exposed to the washing of the rains.

2nd. Where the manure is hauled directly from the stable to the field where it is immediately ploughed under.

3rd. Where the domestic animals are allowed to run in pasture and the droppings are allowed to remain wherever they chance to fall.

From the above tables in the latter part, the following results were obtained:—

1st. Where the manure was hauled directly from the stable as a top dressing an average of only 12.8 per cent of the seeds fed to animals germinated.

2nd. Where the manure was hauled directly from the stable upon the land and ploughed under, 2.3 per cent of the seeds fed to animals came up.

3rd. Where the droppings remained on the pasture fields unadulterated as they fell, an average of only 3.1 per cent of the seeds fed to animals germinated."

I have the following expression of opinion from G. H. Clark, Esq., seed commissioner of the Department of Agriculture, Canada:—

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"There has been quite a large number of samples of mill feeds analysed in our seed laboratory covering the period of six years, and from the results of this work we have formed the opinion that the proportion of whole weed seeds contained in the feeding stuff depends largely on the care or lack of care on the part of the manufacturer.

"Weed seeds in seed grain are probably five times more dangerous to agriculture than are weed seeds in mill feeds, for the reason that only a small per cent of the weed seeds fed to stock ultimately are put on the land in a viable condition.

"For the present, I think I cannot do more than to express the opinion that if you were to tolerate five noxious weed seeds per pound of bran, shorts or chop feed before you consider their character affected as being free from the seeds of the said weeds within the meaning of your regulations; then field agriculture would be as well safeguarded as it now is under the regulations that are applied for a similar purpose under the Seed Control Act."

The department has not, up to the present time, fixed any legal limit for weed seeds, in consequence of which I have not judged as adulterated any of the samples herein reported. I have, however, ventured to describe weed seeds as in excess when present to the extent of 3 seeds per ounce, practically 50 seeds per pound. I am sure that this is a very liberal interpretation of the regulations; but until some departmental action is taken to fix numerical limits beyond which noxious weed seeds shall be recognized as illegal, nothing more can be done.

It will be noted that the article *chop feed*, varies greatly in its feeding value. While the protein minimum fixed by law is 10 per cent, 55 samples show more than 12 per cent protein; 36 samples more than 13 per cent; 20 samples more than 14 per cent and 17 samples more than 15 per cent protein while 3 samples show above 20 per cent. These last are usually chopped peas. It is a question whether or not the term chop-feed is not too comprehensive, and might not, with advantage to the buyer, and in justice to the miller, be more closely defined by recognition of sub-classes. It is quite evident, by the percentages of fibre found in some of these samples, that some millers take advantage of the excess value in protein and fat, to add valueless material (chaff or oat-hulls, etc.) to the feed. More than 15 per cent of crude fibre is found in 18 samples herein reported, while the legal maximum is 10 per cent.

These matters will be further considered; and it is hoped that recommendations for amendment of our standard may result from fuller experience and study of the subject.

Meantime, I beg to recommend publication of this report as Bulletin No. 319.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1915.							
March 8	Chop Feed...	64136	G. B. Shaffner & Co., Ltd., Halifax, N.S.	3 lb..	Nil.	Gunn & Co., Hali- fax, N.S.	Manufacturers..
" 9	"	64137	Gunn & Co., Ltd., Hali- fax, N.S.	3 " "	" "	Vendors.....	
" 9	"	64138	" " "	3 " "	" "	"	
" 10	"	64139	Shand Bros., Windsor, N.S.	3 " "	6	Lake of the Woods M. Co., Mont- real.	Manufacturers..
" 10	"	64140	" " "	3 " "	6	T. H. Taylor Co., Chatham, Ont.	" ..
" 11	"	64141	Hants Co. Fruit & Pro- duct Co., Windsor, N.S.	3 " "	Nil.	Chisholm M. Co., Toronto.	Smith Brokerage St. John, N.B.
" 12	"	64142	Lamont & Steadville, Kentville, N.S.	3 " "	"	Can. Flour Mills, Chatham, Ont.	Manufacturers..
" 15	"	64143	H. S. Hall, Bridgewater, N.S.	3 " "	5	Can. C. & F. Mills, Galt, Ont.	" ..
" 15	"	64144	C. M. Bent, Bridgewater, N.S.	3 " "		Unknown.....	Unknown ...
DISTRICT OF NEW BRUNSWICK—							
Feb. 10	Chop Feed...	59656	Steen Bros., St. John, N.B.	3 pgs.	10	Vendors	
" 11	"	59657	Maritime Corn Meal Mill, St. John, N.B.	3 " "	Nil.	"	
" 11	"	59658	St. John Milling Co., St. John, N.B.	3 " "	"	"	
" 10	"	59659	F. H. Everett, Frederic- ton.	3 " "	10	Vendor ...	
" 19	"	59660	Johnston & Kitchen, Fredericton.	3 " "	20	Quaker Oats Co., Peterboro.	
" 19	"	59661	G. W. Hodge, Frederic- ton.	3 " "	15	Rob Roy Cereal Mills, Durham, Ont.	
" 22	" ...	59662	Meduxnakeag Roller Mills Woodstock, N. B.	3 " "	15	Vendors.....	
" 24	"	59663	Napoleon Turcotte, Grand Falls, N.B.	3 " "	15	Vendor	
March 2	" ...	59664	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 " "	15	Ogilvie's, Ltd., Montreal.	
" 3	"	59665	"	3 " "	15	Quaker Oats Co., Peterboro.	
" 3	" ...	65911	Fawcett Milling Co., Moncton, N.B.	3 " "	20	Vendors.	

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CHOP FEED.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds Per ounce.		
R. J. WAUGH, INSPECTOR.						
	p. c.	p. c.	p. c.			
O. & C. chop.	9·87	4·32	6·00	14 Lambs Quarters, 10 Black Bindweed, 3 Wild Oats, 1 Wild Mustard, 1 Sunflower.	64136	Meets legal feed value. Noxious weed seeds in excess.
Pig chop.	10·38	3·82	2·30	75 Lambs Quarters, 1 Black Bindweed, 2 Wild Mustard, 1 Hares-car Mustard, 1 Cam-pion.	64137	" "
O. & C. chop.	10·05	4·40	5·45	1 Black Bindweed, 30 Lambs Quarters, 1 Pennycress, 1 Russian Pigweed, 1 Sunflower, 2 Hares-car Mustard.	64138	Meets legal feed value.
C. O. B. chop.	10·25	4·10	6·35	2 Black Bindweed, 1 Wild Oats.	64139	"
Horse and cattle chop	10·63	3·76	4·25	None	64140	"
Corn, oat and barley	10·75	3·98	6·70	6 Black Bindweed, 14 Wild Oats.	64141	Meets legal feed value. Noxious weed seeds in excess.
B. O. C. $\frac{1}{2}$ chop.	11·19	3·38	5·05	2 Wild Oats.	64142	Meets legal feed value.
B. O. C. chop.	10·50	3·04	4·55	4 Black Bindweed, 17 Wild Oats, 1 Wild Mustard, 2 Lambs Quarters, 1 Hedys-arum.	64143	Meets legal feed value. Noxious weed seeds in excess.
.	10·02	3·82	9·70	None	64144	Meets legal feed value.
JOHN C. FERGUSON, INSPECTOR.						
Argentine corn.	10·19	4·81	3·05	2 Wild Oats.	59656	Meets legal feed value.
Cracked corn and oats. "	10·50	4·72	6·45	None	59657	"
.	10·57	4·48	6·80	5 Wild Oats, 2 Black Bindweed.	59658	Meets legal feed value. Noxious weed seeds in excess.
.	10·38	4·82	8·10	1 Spurrey, 2 Smartweed, 2 Tartary wheat.	59659	Meets legal feed value.
Banner, Claim Protein 8·5, Fat 3·5, Fibre 9·0.	9·94	3·56	6·70	None	59660	and claim.
Chieftain Brand, Claim Protein 6·65, Fat 5·41, Fibre 13·33	8·25	2·90	11·45	"	59661	Meets claims, except in fat. Inferior quality for legal chop. Adulterated.
Oats, wheat, etc.	10·57	3·92	9·00	"	59662	Meets legal feed value.
Oats, barley and buckwheat.	9·50	3·62	9·20	7 Spurrey, 1 Chickpea.	59663	"
Hercules Brand	10·57	3·70	10·15	1 Lambs Quarters, 4 Black Bindweed, 1 Sunflower, 2 Wild Oats, 2 Wild Mustard, 1 Hares-car Mustard.	59664	Meets legal feed value. Noxious weed seeds in excess.
Schmacker Brand, Claim Protein 10·5, Fat 4·0, Fibre 10·5	9·87	3·30	8·55	4 Lambs Quarters, 1 Penny-cress.	59665	Meets legal feed value.
Golden Star Brand	9·81	3·84	3·02	None	59666	"

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BULLETIN No. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY.—

1915.							
Jan. 29	Cracked Oats.	60789	J. B. Renaud & Cie, Quebec.	5 lbs..	...	Vendors .....	...
" 29	" Corn.	60790	" "	5 "	...	" .....	...
" 29	Oatmeal Feed.	60791	" "	5 "	...	Quebec Oats Co. ....	...
" 29	Ground Oats..	60792	" "	5 "	...	Vendor .....	...
" 29	" ..	60793	" "	5 "	...	John Mackay, Bowmanville. ....	...
" 29	Blé d'Inde Casse.	60794	W. Carrier & Cie, Quebec.	5 "	...	Vendors .....	...
" 29	Oat Meal Feed	60795	" "	5 "	...	Ogilvie, F. M., Co. ....	...
" 29	Blé d'Inde Casse.	60796	P. J. Busiere & Cie, Quebec.	5 "	16	Vendors .....	...
" 29	Moulé d'avoine	60797	" "	5 "	16	Lake of the Woods .....	...
" 29	" d'Orge..	60798	" "	5 "	16	Macky, Ottawa... ..	...

DISTRICT OF QUEBEC PROVINCE.—

Jan. 25	Moulé... ..	3757	Dodier & Crete, Levis...	3 lbs..	9	F. Guay, Levis. ....	...
" 25	"	3759	" "	3 "	9	J. B. Renaud & Cie, Quebec. ....	...
" 26	"	3764	G. & Ed. Couture, Levis..	3 "	10	Ogilvie Flour Mills .....	...
" 27	"	3766	J. A. Gagnon & fils, Lewis.	3 "	9	J. B. Renaud & Cie, Quebec. ....	...
Feb. 10	"	3791	Lacasse & Aude, St. Edward.	3 "	10	A. Lonchant, Traintod, Co. ....	...
Jan. 27	Gruaux.....	2742	Alp. Letourneau, St. Pierre.	3 "	18	Dorchester.	Turcotte frère & Cie, Quebec.
" 28	Pois Concassé.	2744	L. Uger Benaier, Cap. St. Ignace.	3 "	18	.....	J. B. Renaud & Cie, Quebec.
" 29	Gruaux Avoine	2745	Nap. Proulx, Montmagny.	3 "	25	Quaker Oats Co., Peterboro. ....	.....
" 30	Pois Concassé.	2746	Joseph Fournier, St. Thomas.	3 "	21	.....	N. Rioux & Cie, Quebec.
Feb. 2	Blé d'Inde Casse.	56443	Pierre Lagois, St. Epiphaine.	3 "	12	T. Langlais, Fraserville.

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CHOP FEED.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.		

F. X. W. E. BELAND, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	12.15	4.80	10.45	20 Wild Oats, 13 Wild Mustard, 1 Ball Mustard, 13 Hares' Ear Mustard, 5 Pennycress, 20 Lambs' Quarters, 25 Black Bind-weed.	60789	Meets legal feed value, noxious weed seeds in excess.
.....	9.98	3.88	2.15	None.....	60790	Meets legal feed value.
.....	5.65	2.54	23.68	2 Wild Mustard.....	60791	Adulterated under the Act.
.....	11.95	4.62	9.75	10 Lambs' Quarters.....	60792	Meets legal feed value.
.....	13.75	3.96	12.70	None.....	60793	Some excess fibre; other wise good. Pass.
.....	9.60	3.80	2.20	".....	60794	Meets legal feed value.
.....	6.61	2.32	23.30	".....	60795	Adulterated.
.....	9.40	3.85	2.05	".....	60796	Meets legal feed value.
.....	10.05	1.84	15.00	".....	60797	Excess fibre. Adulterated.
.....	14.05	3.32	9.75	".....	60798	Meets legal feed value.

J. E. AUDET, T. GENDREAU, A. P. PELLETIER, TEMP. INSPECTORS.

.....	11.40	4.38	8.75	None.....	3757	Meets legal feed value.
.....	6.22	2.20	22.15	".....	3759	Adulterated.
.....	8.10	1.60	0.35	".....	3764	Low in protein. Adulterated.
.....	9.55	3.88	1.45	".....	3766	Meets legal feed value.
.....	11.15	4.14	9.95	".....	3791	Meets legal feed value.
.....	13.80	7.40	1.17	".....	2742	Meets legal feed value.
.....	26.70	0.88	1.15	".....	2744	Low in fat, but very high in protein. Pass, as compensated.
.....	15.60	7.14	1.11	".....	2745	Meets legal feed value.
.....	29.20	1.05	1.07	".....	2746	Low in fat, but very high in protein. Pass, as compensated.
.....	8.00	2.18	1.10	".....	26442	Low in protein. Adulterated.

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BULLETIN No. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS—							
1915.							
Jan. 16	Moulee.....	3921	G. H. Read, St. Felix de Valois.	5 lb...	10	Ogilvie, F. M. Co., Montreal.	
" 20	"	3922	J. E. Dufort, Joliet.....	4 " ..	10	Lake of the Woods Flour Mills Co.	
DISTRICT OF EASTERN TOWNSHIPS—							
Feb. 9	Moulee. ...	1689	H. Roux & Fils, Danville.	3 lb...	10	Mount Royal Flour Mill ng Co., Montreal.	
" 11	Bléinde and Avoine.	1690	D. S. Bachand, Coaticook.	3 " ..	4	" " ..	
" 16	Moulee.....	1691	A. Milette, Windsor Mills	3 " ..	4	Ogilvie M. Co., Montreal.	
" 16	"	1692	S. & W. Fortier, Sherbrooke.	3 " ..	5	" " ..	
" 17	"	1693	A. W. Moore & Co., Magog.	3 " ..	5	Western Canada F. M. Co., Montreal.	
" 18	Victor Feed..	1694	Neil Bros., Waterloo..	3 " ..	5	Quaker Oats, Peterboro'.	
" 18	Avoine Moulee	1695	G. J. McGuire,.....	2 " ..	5	J. Labrecque, Waterloo, P.Q.	
" 18	Moulee.	1696	J. C. Robert, Granby ...	3 " ..	"	" " ..	
Mch. 26	"	1697	Chs. G. Racicot, St. Hyacinthe.	3 " ..	5	Wm. Scott & Co., Ottawa.	
" 26	"	1698	O. Gaucher, St. Hyacinthe	3 " ..	5	Reniere & Scott, St. Hyacinthe.	
DISTRICT OF MONTREAL—							
Jan. 28	Moulee.....	62691	M. Gervais, 147 Mullarky ave., Verdun.	3 lb...	5	.....	W. Lamarre & Co., Montreal.
Feb. 1	"	62692	P. Thibault, 473 Church ave., Verdun.	3 " ..	5	.....	" " ..
Mch. 19	"	61693	T. Dansereau & Co., 499 Charlevoix st., Montreal.	3 " ..	10	.....	Jos. Elie, Montreal.
" 19	"	62694	J. B. Bonhomme & Co., 811 Charlevoix st., Montreal.	3 " ..	10	.....	W. Lamarre & Co., Montreal.
" 19	"	62655	Laporte & Frere, 49 St. Charles st., Montreal.	3 " ..	6	.....	Unknown...
" 19	"	62696	A. Vachon, 593 Marie Anne st., Montreal.	3 " ..	6	.....	F. Gobeille, Montreal.
" 20	"	62697	J. Mongeau, 826 Marie Anne st., Montreal.	3 " ..	6	.....	" " ..
" 20	"	62698	R. Corbeil, 146 Garnier st., Winnipeg.	3 " ..	9	.....	" " ..
" 20	"	62699	A. Hetu & Co., 147 De Laroche st., Montreal.	3 " ..	8	" " ..
" 20	"	62700	A. Filatrault, 976 St. Andre st., Montreal.	3 " ..	5	" " ..

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CHOP FEED.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds. per ounce.		

DR. V. P. LAVALLEE, INSPECTOR.

.....	16.35	3.98	5.75	None.	3921	Meets legal feed value.
.....	16.75	3.74	5.25	"	3922	" "

J. C. ROULEAU, INSPECTOR.

.....	11.60	11.52	4.80	None.	1689	Meets legal feed value.
.....	10.40	4.48	5.55	"	1690	" "
Reg. No. 161. Me- lange. Claim, Pro- tein, 8.5, Fat=3.1 Fibre=14.5.	9.70	4.74	13.25	"	1691	Meets claim of guarantee.
Blé d'Inde.	9.90	4.02	1.92	"	1692	Meets legal feed value.
Blé.....	16.00	3.58	5.20	"	1693	" "
Reg. No. 14, Claim, Protein, 8.0, Fat 3.5, Fibre=12.0	9.04	3.26	11.04	"	1694	Meets guarantee.
.....	12.50	5.18	9.10	2 Wild Oats.	1695	Meets legal feed value.
Blé d'Inde.	9.42	3.74	1.48	None.	1696	" "
Melange	10.90	3.48	14.83	"	1697	Excess fibre. Adulterated
Avoine and Blé.	12.50	2.64	4.57	1 Ball Mustard.	1698	Meets legal feed value.

D. J. KEARNEY, INSPECTOR.

.....	9.67	3.40	15.39	6 Lambs Quarters. 1 Russian Pigweed.	62691	Excess Fibre. Adulterated.
.....	9.55	3.62	15.43	None	62692	" "
.....	9.34	2.78	7.40	"	62693	Nearly meets legal feed value. Pass
.....	8.82	4.08	17.35	"	62694	Low protein and excess fibre. Adulterated.
.....	7.65	1.92	19.10	"	62695	" "
.....	9.02	2.90	13.67	"	62696	" "
.....	11.40	3.48	11.95	1 Sow Thistle. 1 Stinkweed 2 Wild Mustard.	62697	Slight excess fibre. Pass. Noxious weed seeds in excess.
.....	12.60	3.06	7.34	None.	62698	Meets legal feed value.
.....	8.89	2.42	10.65	1 Black Birdweed. 7 Lambs Quarters. 1 Pennywess.	62699	Protein slightly low and slight excess fibre. Pass
.....	14.07	3.65	10.25	None	62700	Meets legal feed value.

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BULLETIN No. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacture or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacture.	Furnisher.

DISTRICT OF OTTAWA—

1915.							
Jan. 12	Chop Feed...	63386	G. D. Atkinson, Corn-wall.	3 lbs.	....	Vendor .....	.....
" 12	"	63387	Black & Borthwick, "	3 "	....	Vendors .....	.....
" 12	" ..	63388	" " "	3 "	....	" .....	.....
" 12	"	63389	Tilton & Graham "	3 "	b	Peterboro Cereal Co.	.....
" 28	"	63390	Doyle Bros., Prescott ...	4 "	10	Maple Leaf M. Co. Kenora.	.....
Feb. 9	Provender...	63391	Lake of the Woods M. Co., Ottawa.	3 "	....	Vendors .....	.....
" 9	"	63392	Ed. St. Germain, Ottawa.	3 "	10	Renfrew M. Co., Renfrew.	.....
" 9	Chop Feed...	63393	Western F. M. Co., "	3 "	....	Vendors .....	.....
" 9	Provender...	63394	J. A. Forward, "	3 "	....	Vendor .....	.....
" 20	"	63395	J. J. Ralph "	3 "	....	Wm. R. Cummings Bridge.	.....

DISTRICT OF KINGSTON—

Feb. 1	Moulee	66546	The Maple Leaf M. Co., Kingston.	3 lbs.	10	Vendors .....	.....
" 1	"	66547	Geo. Gibson, Kingston ..	3 "	10	Maple Leaf Milling Co.	.....
" 9	"	66548	E. Brawley, Sydenham...	3 "	10	" "	.....

DISTRICT OF TORONTO—

Feb. 16	Chop	66801	James Reynolds, Aurora..	3 lbs.	10	Wm. Reynolds & Son, Staynor.	.....
" 16	"	66802	W. J. Baldwin, "	3 "	10	Vendor .....	.....
" 16	"	66803	Geo. Forester, Newmarket	3 "	10	" .....	.....
" 17	"	66804	A. J. Lowick & Son, Sutton.	3 "	10	Vendors .....	.....
18	"	66805	R. W. Dixon, Oshawa....	5 "	10	Vendor .....	.....

SESSIONAL PAPER No. 14

CHOP FEED.

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

J. A. RICKEY, INSPECTOR.

Corn and Oat Chop..	10.35	3.96	5.29	None.....	63386	Meets legal feed value.
" "	10.50	4.24	7.16	"	63387	" "
Corn Chop	9.36	3.90	1.85	"	63388	" "
Barley "	13.35	2.44	6.80	"	63389	" "
Oat "	13.00	4.18	10.70	1 Wild Oat..	63390	" "
Oxmeal Reg. No. 51. Claim — Protein 16.5—Fat = 3.0— Fibre 7.6.	16.85	3.44	4.80	None.....	63391	" "
"	11.80	2.90	7.65	2 Red straw.....	63392	" "
Excelsior, Reg. No. 345. Corn, Oats and Wheat. Claim Protein 11.11—Fat = 2.73—Fibre = 15.51.	9.11	2.94	15.40	12 Black Bindweed, 7 Lambs' Quarters, 2 American Dragonhead, 1 Chicory, 1 Cinquefoil, 1 Pennycress, 1 Peppercress, 1 Western Sunflower, 3 Evening Prim- rose, 1 Ball Mustard, 4 Hares Ear Mustard, 1 Tumbling Mustard, 43 Wild Mustard, 25 Stickseed.	63393	Low in proteins. Noxious weed seeds in excess Adulterated.
"	13.30	4.64	7.55	None.....	63394	Meets legal feed value.
"	11.50	4.10	8.00	"	63395	" "

JAS. HOGAN, INSPECTOR.

"	17.70	4.30	4.15	None.....	66546	Meets legal feed value.
"	17.55	4.28	4.20	"	66547	" "
"	18.50	4.54	5.65	"	66548	" "

H. J. DAGER, INSPECTOR.

"	13.40	2.86	8.15	1 Wild Oat.	66801	Meets legal feed value.
"	12.80	2.76	5.71	None.....	66802	" "
"	11.20	3.57	5.45	8 China.....	66803	" "
"	11.00	3.49	5.10	3 Wild Oats, 1 Wormseed Mustard.	66804	Meets legal feed value. Noxious weed seed in ex- cess.
"	12.10	4.10	8.88	1 Wild Mustard, 9 Wild Oats	66805	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1915.							
Feb. 18	Chop..... ..	66806	Cooper Smith Co., Oshawa	5 lbs.	10	Vendors..	
" 24	"	66807	The Watt M. & F. Co., Toronto.	5 "	10	"	
" 25	"	66808	Wallace Bros., Wood- bridge.	5 "	10	"	
" 25	Chop Feed...	66809	Moody Bros., Weston ...	3 "	5	"	
" 25	" ..	66810	F. A. Oldham, Weston...	3 "	10	.....	Walker Thistle- down.

DISTRICT OF HAMILTON—							
Mar. 2	Chop Feed...	66824	J. R. White & Sons, Galt	3 lbs.	5	Vendors....	
" 3	"	66825	Wm. Snider, Waterloo, Ont.	3 "	10	"	
" 3	"	66826	S. Brown & Son, Berlin	3 "	10	"	
" 9	"	66827	Geo. E. Taylor, Paris Station.	3 "	10	Tavistock M. Co., Tavistock.	
" 9	"	66828	W. Rutherford, Paris	4 "	5	"	
" 10	"	66829	Wood Bros., Brantford	3 "	...	Vendors	
" 11	"	66830	H. Rayner & Co., Grimsby	4 "	10	.....	Unknown.....
" 11	"	66832	Tufford & Wismer, Beams- ville.	5 "	10	D. B. Wood M. Co., Hamilton.	
" 12	"	66833	P. B. Newton & Sons, Dundas	5 "	5	Niagara G. and F. Co., Ltd., Tor- onto.	
" 13	"	66902	Wood Milling Co., Ltd., Hamilton.	5 "	10	Vendors	

DISTRICT OF WINDSOR—							
Feb. 17	Chop Feed...	54716	G. M. McKay, Ingersoll.	3 lbs.	7	Scott & Daniels Ingersoll.	
" 18	"	54722	St. Marys M. Co., St. Marys.	3 "	10	.....
" 18	"	54724	Weir & Weir, St. Marys.	3 "	Nil.	Vendors....	
" 19	"	54727	R. M. Pincombe, Strath- roy.	3 "	5	Vendor	
" 19	"	54728	S. S. Donaldson, Strath- roy.	3 "	Nil.	"	
" 23	"	54729	Empire M. Co., St. Thomas	3 "	"	Vendors....	

SESSIONAL PAPER No. 14

CHOP FEED.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			
<i>Concluded.</i>						
	p.c.	p.c.	p.c.			
.....	13.92	5.42	6.80	C Black Bindweed, 2 American Dragonhead, 8 Lambs' Quarters, 1 Ball Mustard, 1 Hares-Ear Mustard, 2 False Flax, 4 Wild Mustard, 12 Wild Oats.	66806	Meets legal feed value. Noxious weed seed in excess.
.....	11.15	4.34	10.65	4 Wild Oats, 6 Wild Mustard, 1 Lambs' Quarters, 1 Black Bindweed.	66807	" "
.....	11.90	4.62	9.70	22 Wild Oats.....	66808	" "
.....	11.95	4.14	11.20	None.....	66809	Slight excess fibre. Pass.
.....	12.35	3.48	9.00	1 Wild Oat.....	66810	Meets legal feed value.

H. J. DAGER, ACTING INSPECTOR.

.....	12.05	3.55	5.30	1 pennycress.....	66824	Meets legal feed value.
.....	11.80	5.00	9.20	2 Wild Oats, 1 Wild Mustard.	66825	" " Noxious weed seeds in excess.
.....	10.70	4.36	11.20	None.....	66826	Slight excess fibre. Pass
One-third millscreenings and two-third oat feed. No analysis on bags.	7.08	3.14	10.90	".....	66827	Low proteids. Adulterated.
" "	7.53	3.72	23.30	1 Hares-Ear Mustard, 3 Lambs' Quarters, 1 Russian Pig weed.	66828	Low proteids and excess fibre. Adulterated.
.....	13.33	3.50	4.06	None.....	66829	Meets legal feed value.
.....	12.30	4.55	10.57	".....	66830	"
.....	11.65	3.18	4.35	".....	66831	"
Niagara Dairy Feed. Claim Protein 13.5, Fat 4.0, Fibre 10.5.	8.27	3.31	14.42	".....	66832	Low proteids and excess fibre. Adulterated.
.....	10.40	4.36	9.40	5 Black Bindweed, 1 Penny cress, 1 Western False Flax, 2 Wild Mustard.	66833	Meets legal feed value. Noxious weed seeds in excess.

J. NO. TALBOT, INSPECTOR.

.....	11.60	3.66	10.40	None.....	54726	Meets legal feed value.
.....	11.03	3.56	9.45	".....	54727	"
.....	11.95	3.28	8.80	".....	54728	"
.....	11.65	4.00	6.60	".....	54729	"
.....	11.95	3.90	6.70	".....	54730	"
.....	11.50	8.20	4.21	".....	54731	"

7 GEORGE V, A. 1917
BULLETIN NO. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1915.							
Jan. 27	Chop Feed....	61236	Ogilvie Flour Mills Co., Winnipeg.	3 lbs.	....	Vendors..	.....
Feb. 4	"	61237	Lake of the Woods M. Co., Portage-la-Prairie.	3 "	....	"	.....
" 4	"	61238	"	3 "	....	"	.....
" 5	"	61239	Western Flour Mills Co., St. Boniface.	"	....	"	.....
" 5	"	61240	"	3 "	....	"	.....
" 17	"	61241	Laing Bros., Winnipeg..	3 "	....	"	.....
" 17	"	61242	Carnefac Stock Food Co., Winnipeg.	3 "	....	"	.....
" 17	"	61243	"	3 "	....	"	.....
" 23	"	61244	Western Flour Mills Co., Brandon.	3 "	....	"	.....
" 23	"	61245	"	3 "	....	"	.....

DISTRICT OF SASKATCHEWAN—

Feb. 1	Chop Feed....	66334	Chas. S. Walsh, Moosejaw	5 lbs.	10	Vendors....	.....
" 1	"	66339	Charles H. Boyd, "	5 "	10	"	.....
" 2	"	66342	Adam Johnson, Rouleau.	3 "	4	"	.....
" 3	"	66348	J. H. Mooney, Weyburn.	4 "	Nil.	"	.....
" 3	"	66349	Soo Line M. & E. Co., "	3 "	"	"	.....

DISTRICT OF ALBERTA—

Mar. 13	Chop Feed....	52110	Wetaskiwin Produce Co., Wetaskiwin.	3½ lbs.	...	Vendors	.....
" 13	"	52111	"	3½ "	....	"	.....
" 23	"	52112	Crown Feed and Produce Co., Calgary.	5 "	....	Quaker Oats Co., Saskatoon	.....
" 23	"	52113	Thos. Fletcher, Calgary	4 "	15	Vendors	.....
" 23	"	52114	"	4 "	10	"	.....

SESSIONAL PAPER No. 14

CHOP FEED.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds per ounce.	No. of Sample.	Remarks and opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			
A. C. LARIVIERE, INSPECTOR.						
	p. c.	p. c.	p. c.			
.....	12.95	4.96	8.20	1 <i>Wild Oat</i> , 6 <i>Lamb's Quarters</i> 1 <i>American Dragonhead</i> .	61236	Meets legal feed value.
Oats.....	13.35	5.00	7.35	3 <i>Black Bindweed</i> , 17 <i>Wild Oats</i> .	61237	Meets legal feed value. Noxious weed seeds in excess.
Barley.....	13.70	2.32	6.10	4 <i>Black Bindweed</i> , 4 <i>Wild Oats</i> , 1 <i>Russian Pigweed</i> .	61238	" "
".....	12.55	2.08	6.15	None.....	61239	Meets legal feed value.
Oats.....	11.75	4.48	8.25	1 <i>Wild Oat</i>	61240	" "
Oat Feed.....	13.30	4.44	9.50	12 <i>Wild Oats</i> , 7 <i>Lamb's Quarters</i> , 1 <i>Pennycress</i> .	61241	Meets legal feed value. Noxious weed seeds in excess.
".....	12.65	4.18	8.90	11 <i>Wild Oats</i>	61242	" "
Barley Feed.....	12.35	1.82	4.75	1 <i>Pennycress</i>	61243	Meets legal feed value.
Rolled Oats Chop...	13.05	4.81	10.65	130 <i>Lamb's Quarters</i> , 12 <i>Black Bindweed</i> , 11 <i>Pennycress</i> , 1 <i>Russian Pigweed</i> , 3 <i>Sticks</i> , 3 <i>Wallflower</i> , 1 <i>False Flax</i> , 5 <i>Tansy Mustard</i> , 5 <i>Tumbling Mustard</i> .	61244	Meets legal feed value. Noxious weed seeds in excess.
Oat Chop.....	15.55	5.64	7.85	1 <i>Lamb's Quarters</i> , 1 <i>Wild Oats</i> .	61245	Meets legal feed value.

L. H. HALL, INSPECTOR.

Ground Corn.....	9.60	3.84	2.10	None.....	66334	Meets legal feed value.
Ground Oats and Corn.....	11.05	4.20	4.80	10 <i>Wild Mustard</i> , 3 <i>Hare's ear Mustard</i> , 8 <i>Pennycress</i> , 4 <i>Lamb's Quarters</i> .	66339	Meets legal feed value. Noxious weed seeds in excess.
Ground Oats and Barley.....	13.85	3.58	5.90	None.....	66342	Meets legal feed value.
Ground Corn.....	9.62	3.96	1.95	None.....	66348	" "
Ground Oats.....	13.25	3.86	9.65	None.....	66349	" "

A. W. R. MARKLEY, INSPECTOR.

All Ground Barley.....	12.35	2.42	5.23	None.....	52110	Meets legal feed value.
Oats.....	12.70	2.24	5.90	4 <i>Black Bindweed</i> , 12 <i>Lamb's Quarters</i> .	52111	" "
Reg. No. 339 Claim—Protein 7.5, Fat 3.0, Fibre 20.0.	7.50	3.14	17.80	11 <i>Lamb's Quarters</i> .	52112	Meets claim.
Chopped Oats.....	13.50	4.70	8.65	13	52113	Meets legal feed value.
Chopped Barley.....	12.10	2.24	5.23	None.....	52114	" "

7 GEORGE V, A. 1917
BULLETIN No. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—

1915.							
Mar. 23	Chop Feed ...	52115	Erl & Anderson, Calgary.	5 lbs.	15	Robin Hood Mills.	.....
" 23	" ...	52116	" " "	5 "	15	W. Munro, Springbank, Alta.	.....
" 23	" ...	52117	Robin Hood Mills, Calgary.	5 "	....	Robin Hood Mills, Moose Jaw.	.....
" 23	" ...	52118	" " "	5 "	....	Vendors.....	.....
" 23	" ...	52119	West End Feed Store, Calgary.	5 "	10	Quaker Oats Co., Saskatoon.	.....

DISTRICT OF ROCKY MOUNTAINS—

Feb. 1	Chop Feed ...	61749	Brackman-Ker M. Co., Nelson, B.C.	5 lbs.	15	B. K. M. Co., Calgary.	.....
Mar. 16	" ...	61790	Brackman-Ker M. Co., Rossland.	5 "	25	" " "	.....

DISTRICT OF VANCOUVER—

Feb. 1	Chop Feed ...	55188	Alberta Pacific Grain Co., Ltd., Vancouver, B.C.	3 lbs.	....	Quaker Oats Co., Saskatoon.	.....
" 4	" ...	55189	" " "	3 "	....	Vendors.....	.....
" 5	" ...	55190	Vancouver Milling and Grain Co., Vancouver, B.C.	3 "	....	" .....	.....
" 6	" ...	55191	F. T. Vernon, 255 Broadway, Vancouver, B.C.	3 "	5	Vendor .....	.....
" 6	" ...	55192	" " "	3 "	5	" .....	.....
" 6	" ...	55193	A. E. Burnett & Co., City Market, Vancouver, B.C.	3 "	5	Vendors.....	.....
" 6	" ...	55194	" " "	3 "	10	" .....	.....
" 8	" ...	55195	Tait Bros., Eburne.....	3 "	....	" .....	.....
" 8	" ...	55196	McLellan-McCarter Co., Ltd., 1605 6th Ave. W., Eburne.	3 "	10	" .....	.....
" 8	" ...	55197	" " "	3 "	15	" .....	.....
" 9	" ...	55208	Grain Growing, B.C. Agency, New Westminster, B.C.	3 "	....	" .....	.....
" 9	" ...	55209	" " "	3 "	....	" .....	.....

SESSIONAL PAPER No. 14

CHOP FEED.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds. per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

Concluded.

	p. c.	p. c.	p. c.			
Chopped Oats	12.90	5.08	9.00	None	52115	Meets legal feed value.
" Barley ...	14.00	2.44	4.90	"	52116	" "
Oat Feed	6.95	3.20	21.04	"	52117	Low protein and excess fibre. Adulterated.
Barley Chop.....	12.50	2.00	5.47	"	52118	Meets legal feed value.
Reg. No. 339. Claim —Protein 7.5, Fat 3.0, Fibre 20.0.	7.50	3.16	17.53	8 Lambs' Quarters.....	52119	Meets claim of guarantee.

THOS. PARKER, INSPECTOR.

Empire	6.58	1.33	24.22	None.....	61749	Low protein and excess fibre. Adulterated.
"	2.60	1.16	20.10	"	61790	"

E. J. MORGAN, INSPECTOR.

Dairy Feed	7.02	3.18	22.12	7 Lambs' Quarters, 1 Black Bindweed.	55188	Low protein and excess fibre. Adulterated.
Excelsior Chop ...	11.10	3.10	6.75	10 Lambs' Quarters, 5 <i>Balsam</i> <i>Mustard</i> , 3 <i>Wild Mustard</i> .	55189	Meets legal feed value. Noxious weed seeds in excess.
Excelall " ..	10.95	4.96	6.09	7 Black Bindweed, 2 <i>Wild</i> <i>Oats</i> .	55190	Meets legal feed value.
Oat "	11.90	5.34	8.15	None	55191	" "
Barley " ..	12.00	1.78	4.40	6 Lambs' Quarters	55192	" "
Oat "	11.90	4.86	8.85	None	55193	" "
Barley "	11.20	1.92	6.75	"	55194	" "
" "	7.77	1.64	4.80	2 Black Bindweed, 3 <i>Spurrey</i> , 1 <i>Wild Oat</i> .	55195	Low in protein. Adulterated.
Corn "	8.13	3.60	1.80	None	55196	" "
Oat "	11.00	5.56	8.30	1 <i>Cow Chick</i> , 1 <i>Wild Oat</i> , 1 <i>Spurrey</i> .	55197	Meets legal feed value.
Danish Milk Feed	11.85	6.80	11.75	None	55198	Slight excess fibre. Pass.
Paisley Dairy,	18.75	6.26	10.60	"	55199	Meets legal feed value.

7 GEORGE V, A. 1917

BULLETIN No. 319—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1915.							
Feb. 22	Chop Feed...	62071	Brackman Ker M. Co., Victoria, B.C.	4 lb....		Vendors.....	.....
" 22	"	62072	" "	4 " .....		" .....	.....
" 22	"	62073	" "	4 " .....		" .....	.....
" 22	"	62074	" "	4 " .....		" .....	.....
" 23	"	62075	Scott & Peden, Victoria, B.C.	4 " ..	7	Robin Hood Mills, Moose Jaw.	.....
" 23	"	62076	" "	4 " ..	8	Brackman Ker M Co., Victoria.	.....
Mar. 5	"	62081	Vancouver M. and Grain Co., Victoria, B.C.	4 "		Vanc. M. and G. Co., Vancouver.	.....
" 5	"	62082	" "	4 " .....		"	.....
" 5	"	62083	" "	4 " .....		"	.....

SESSIONAL PAPER No. 14

CHOP FEED.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital Weed Seeds. Per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			

D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.			
Corn Chop, Reg. No., 136. Claim: Pro- tein 9'0, Fat 4'0 Fibre 8'0.	9'40	3'20	11'72	None.....	62071	Some excess fibre. Pass.
Oat Feed, Reg. No. 137. Claim: Pro- tein 7'0, Fat 3'0, Fibre 15'0.	7'10	5'16	17'07	"	62072	Meets claim of guarantee.
Jersey Dairy Feed, Reg. No. 138. Claim: Protein 18'0, Fat 5'0, Fibre 10'0.	21'65	5'00	11'77	"	62073	Meets claim of guarantee.
Chicken Chop, Reg. No. 154. Claim: Protein 15'0, Fat 5'0, Fibre 5'0.	15'20	4'24	7'48	"	62074	Meets legal feed value.
Oat Feed. Claim: Protein 5'25, Fat 2'5, Fibre 20'0. No Reg. No. on sacks.	6'79	3'00	20'70	"	62075	Meets claim.
Jersey Dairy Feed, Reg. No. 138. Claim: Protein 18'0, Fat 5'0, Fibre 10'0.	18'75	4'20	12'72	"	62076	Nearly meets claim. Pass
Excellall Chop. Not Registered.	15'65	3'40	6'95	35 Wild Oats, 1 Black Bind weed, 1 Smartweed.	62081	Meets legal feed value. Noxious weed seeds in excess
Milk Food. Claim: Protein 25'3, Fat 5'23, Fibre 5'23.	16'65	4'18	11'42	None	62082	Protein below claim; fibre in excess. Adulterated.
Dairy. Reg. No. 130. Claim: Protein 11'1, Fat 4'5, Fibre 10'8.	13'40	2'28	9'25	"	62083	Meets legal feed value.

APPENDIX K.

BULLETIN No. 320—TABLE SYRUPS OTHER THAN MAPLE.

OTTAWA, August 7, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—The report herewith submitted deals with syrups other than maple, used as table syrups. Maple syrup has been several times made the subject of inspection, since it is peculiarly a Canadian product, and has been quite extensively adulterated. Samples of molasses have also been collected.

The samples now reported (200 in number) were purchased by our inspectors in January, February and March last, and may serve to show the general character of syrup, other than maple syrup, offered on the Canadian market. The samples may be classified as below:

Cane sugar syrups.	49
Essentially glucose syrups.	109
Mixtures, containing a considerable percentage of cane sugar syrup.	27
Molasses.	15
Total.	200

It would appear from this showing that glucose, or so called corn starch syrups, are most largely found. All of these contain some cane sugar or refiner's syrup, and some of them contain considerable percentages of this. They are perfectly wholesome articles of food, decidedly less sweet than the cane sugar syrups. It is doubtless because of their cheapness that they are so much in evidence. The data here put on record will serve to give the public information regarding the syrups in the Canadian market, and will also be helpful towards standardization of syrup, under the Act, should such a step appear to be necessary.

I beg to recommend publication of this report as Bulletin No. 320.

I have the honour to be, Sir,
Your obedient servant,

ALP. LEMOINE,
For Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Feb. 26	Table Syrup	64126	J. L. Wilson, Halifax, N.S.	3 tins.	56	A. Lyle & Son, London, Eng.	Mfrs
Mar. 4	"	64127	Wm. Moore, Halifax, N.S.	3 "	38	Can. Starch Co., Fort William, Ont.	"
" 4	"	64128	R. B. Sweeten & Co., Halifax, N.S.	3 "	50	A. Lyle & Son, London, Eng.	"
" 5	"	64129	Payzant & King, Halifax, N.S.	3 "	33	Can. Starch Co., Fort William, Ont.	"
" 5	"	64130	Wentzells Ltd., Halifax, N.S.	3 "	35	St. Lawrence Starch Co., Montreal.	"
" 5	"	64131	James Scott & Co., Halifax, N.S.	3 "	45	Corn Products Refining Co., New York.	.....

DISTRICT OF NOVA SCOTIA—

Feb. 19	Table Syrup	65815	A. A. McDonald, New Glasgow.	3 tins.	45	A. Lyle & Son, London, Eng.	Unknown.
" 19	"	65816	2 Barkers Ltd., New Glasgow.	3 "	39	Can. Starch Co., Fort William, Ont.	Mfrs
" 19	"	65817	James McArthur, New Glasgow.	3 "	51	Corn Products Refining Co., New York.	"
" 19	"	65818	James Cavanagh, New Glasgow.	3 "	54	A. Lyle & Son, London, Eng.	Unknown.
" 19	"	65819	" " " "	2 lbs.	12	Can. Starch Co., Fort William, Ont.	Mfrs
" 19	"	65820	C. Grant, New Glasgow.	2 "	13	" " "	Unknown.
" 19	"	65821	R. M. Sutherland, New Glasgow.	2 "	15	" " "	Mfrs

DISTRICT OF PRINCE EDWARD ISLAND—

Apr. 8	Table Syrup	60175	Beer & Goff, Charlottetown.	3 tins.	48	Can. Starch Co., Cardinal.	.....
" 8	"	60176	Stewart & Son, Charlottetown.	3 lbs.	18	" " "	.....
" 8	"	60177	E. Toombs, Charlottetown.	3 tins.	35	.....	Carvell Bros., Charlottetown.
" 14	"	60178	Beer & Goff, Charlottetown.	3 "	60	A. Lyle & Son, London, Eng.	.....
" 14	"	60179	Jenkins & Son, Charlottetown.	3 "	45	Can. Starch Co., Cardinal.	.....

DISTRICT OF NEW BRUNSWICK—

Jan. 29	Table Syrup	59676	H. W. Cole, Ltd., St. John, N.B.	3 tins.	45	Can. Starch Co., Ltd., Cardinal.	.....
Feb. 9	"	59677	Puddington, Wetmore & Morrison, Ltd., St. John, N.B.	3 "	40	" " "	.....

SESSIONAL PAPER No. 14

TABLE SYRUP.

Inspectors's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane Sugar.
				Direct.	Invert.	Differ- ence.			

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.				p. c.		
Golden Syrup.....	81.70	18.30	1.82	+ 22.2	- 24.1	46.3	34.90	64126	Cane sugar syrup.
.....	77.00	23.00	0.70	+154.4	+150.7	3.7	2.79	64127	Chiefly glucose.
Golden Syrup.....	82.35	17.65	1.86	+ 22.4	- 24.2	46.6	35.13	64128	Cane sugar syrup.
.....	78.55	21.45	0.56	+151.4	+147.8	3.6	2.72	64129	Chiefly glucose.
Bee Hive Brand	80.60	19.40	0.90	+151.8	+146.5	5.3	4.09	64130	"
Karo Brand	76.35	23.65	0.82	+147.2	+141.4	5.8	4.37	64131	"

W. A. PETIPAS, TEMPORARY INSPECTOR.

.....	82.25	17.75	1.50	+ 20.4	- 23.3	43.7	32.94	65815	Cane sugar syrup.
.....	76.00	24.00	0.51	+156.4	+152.9	3.5	2.64	65816	Chiefly glucose.
.....	76.30	23.70	0.98	+147.4	+141.7	5.7	4.39	65817	"
.....	81.35	18.65	1.74	+ 21.0	- 23.1	44.1	33.25	65818	Cane sugar syrup.
.....	76.65	23.35	0.63	+152.4	+148.5	3.9	2.94	65819	Chiefly glucose.
.....	76.50	23.50	0.68	+153.4	+148.9	4.5	3.40	65820	"
.....	75.80	24.20	0.53	+156.0	+153.3	2.7	2.05	65821	"

WM. A. WEEKS, INSPECTOR.

.....	75.05	24.95	0.41	+151.4	+148.7	2.7	2.05	60175	Chiefly glucose.
.....	68.60	31.40	0.30	+107.4	+66.2	41.2	31.00	60176	Cane sugar and glucose.
.....	75.85	24.15	0.58	+137.6	+133.1	4.5	3.35	60177	Chiefly glucose.
.....	81.65	18.35	1.80	+ 21.2	- 22.2	43.4	23.65	60178	Cane sugar syrup.
.....	75.05	24.95	0.58	+146.6	+141.2	5.4	4.08	60179	Chiefly glucose.

JNO. C. FERGUSON, INSPECTOR.

Crown Brand Corn, Sydney	77.35	22.65	0.64	+152.6	+148.0	4.6	3.47	59976	Chiefly glucose
Crown Brand	76.00	24.00	0.42	+153.0	+148.0	5.0	3.77	59977	"

7 GEORGE V, A. 1917

BULLETIN NO. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1915.							
Feb. 10	Table Syrup	59678	J. W. Philips, St. John, N. B.	3 bots.	45	Crosse & Blackwell, London, Eng.	
" 16	"	59679	J. W. Robinson, St. Stephens, N. B.	3 tins.	40	Can. Starch Co., Cardinal, Ont.	W. C. Purves, St. Stephen, N. B.
" 19	"	59680	G. T. Whelpley Estate, Fredericton, N. B.	3 "	60	A. Lyle & Son, London, Eng.	
" 19	"	59681	M. E. Doohan, Fredericton, N. B.	3 "	40	Can. Starch Co., Cardinal, Ont.	
" 24	"	59682	J. Burgess & Son, Ltd., Grand Falls, N. B.	3 "	45	Corn Products Refining Co., New York.	
Mar. 2	"	59683	Mills Eveleigh Co., Ltd., Sussex, N. B.	3 "	45	Canada Starch Co., Cardinal, Ont.	
" 3	"	59684	Reed Co., Ltd., Moncton.	3 "	44	A. Lyle & Son, London, Eng.	
" 3	"	59685	Roderick McLean, Moncton.	3 "	45	Edwardsburg Starch Co., Cardinal, Ont.	

DISTRICT OF QUEBEC CITY—

Jan. 20	Table Syrup	60764	Arthur Drolet, Quebec.	1½ lb.	10	Unknown	Unknown
" 20	"	60765	T. Art. Bedard, Quebec.	1½ "	15	"	Turcotte & Frère.
" 20	"	60766	" " "	1½ "	15	"	N. Rioux & Cie.
" 21	"	60767	O. Lacroix, Quebec.	1½ "	15	P. Masson, Barbadoes.	N. Turcotte & Cie.
" 21	"	60768	" " "	1½ "	15	Sammers & Son, Barbadoes.	Gagnon & Garent.
" 21	"	60769	" " "	1½ "	15	S. F. Masson & Son, Barbadoes.	"
" 21	"	60770	Cantin & Frère, Quebec.	1½ "	15	Gagnon & Garent	"
" 22	"	60771	Myrand & Pouliot, Quebec.	1½ "	15	"	"
" 22	"	60772	" " "	1½ "	15	"	Turcotte & Frère.
" 22	"	60773	C. Riverin, Quebec.	1½ "	15	Unknown	"

DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU

Jan. 18	Molasse	3746	Syndicat de Thetford Mines.	1 pint.	15		J. B. Renaud, Quebec.
" 18	"	3747	" "	1 "	15		Quebec Preserving Co.
" 20	"	3750	John O'Brien, Black Lake, Megantic.	1 "	15		Denault, G. & P., Co., Sherbrooke.
" 25	"	3755	Dodier & Crete, Levis.	1 "	15		J. B. Renaud, Quebec.

SESSIONAL PAPER No. 14

TABLE SYRUP.

Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane sugar.
				Direct.	Invert.	Differ- ence.			

Concluded.

	p. c.	p. c.	p. c.				p. c.	
Golden Syrup.....	81.65	18.25	1.81	+ 21.0	- 22.0	43.0	32.40	59678 Cane sugar syrup.
..... ..	75.85	24.15	0.43	+155.8	+150.7	5.1	3.84	59679 Chiefly glucose.
Lyles Golden Syrup...	81.45	18.55	1.81	+ 22.6	- 22.6	45.2	34.07	59680 Cane sugar syrup.
Crown Brand.....	75.35	24.65	0.35	- 151.0	+146.5	4.5	3.32	59681 Chiefly glucose.
Karo Brand	75.15	24.85	1.01	+144.6	+140.6	4.0	3.00	59682 "
Crown Brand.....	76.50	23.50	0.58	+143.2	+139.0	4.2	3.17	59683 "
Lyles Golden Syrup...	82.15	17.85	1.94	+ 21.2	- 23.3	44.5	33.55	59684 Cane sugar syrup.
Crown Brand.....	76.15	23.85	0.62	+153.2	+148.9	4.3	3.24	59685 Chiefly glucose.

F. X. W. E. BELAND, INSPECTOR.

				Molasses			60764 Molasses.
				"			60765 "
				"			60766 "
				"			60767 "
				"			60768 "
Fancy				"			60769 "
				"			60770 "
				"			60771 "
Fancy Barbadoes				"			60772 "
" "				"			60773 "

N. CADIEUX, T. GENDREAU, ALPH. PELLETIER, TEMP. INSPECTORS

				Molasses			3746 Molasses.
				"			3747 "
				"			3748 "
				"			3749 "

7 GEORGE V, A. 1917

BULLETIN No. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC PROVINCE—							
1915.							
Jan. 25	Table Syrup	3758	Dodier & Crete, Levis.	3 tins.	45	.....	J. B. Renaud, Quebec.
" 26	"	3763	G. & E. Couture, Levis	3 "	45	Canada Starch Co., Cardinal.	.....
" 27	"	3765	J. A. Gagnon & fils, Levis.	3 "	45	" "	.....
" 29	"	3774	O. Lacroix, Quebec....	3 "	45	" "	.....
Feb. 2	" ..	3781	P. G. Turgeon, Quebec	3 "	45	" "	.....
" 3	"	3784	Boyer & Son, Quebec..	3 "	45	" "	.....
" 4	"	3788	A. Boily, Quebec.	3 "	36	" "	.....
" 6	Sirop Table.	3501	Arthur Fradette, Armagh.	1pinte	30	" "	.....
" 6	" ..	3502	Onesime Noel, Armagh	1 "	30	St. Lawrence Starch Co., Ltd.	.....
" 8	" ..	3508	Arthur Ursinault, St. Gervais.	3 tins.	45	Imperial Syrup Co., Ltd., Montreal.	.....
" 9	" ..	3510	J. B. Lacroix, St. Charles.	3 "	45	Canada Starch Co., Edwardsburg.	.....
" 9	" ..	3512	J. H. Couture, St. Charles.	3 chopin.	35	" "	.....
" 9	" ..	3517	J. A. Lemieux, St. Michel.	6 lbs.	42	" "	.....
" 9	" ..	3519	Louis Corriveau, St. Michel.	6 "	45	" "	.....
" 10	" ..	3523	Eugene Bolduc, St. Valier.	3 tins.	30	Imperial Sugar Co., Montreal.	.....
" 1	" ..	262	Cie de Construction & Bois, Ste. Agathe des Monts.	3 "	45	Edwardsburg.....	.....
" 1	" ..	263	Dame N. Fournelle, Ste. Agathe des Monts.	3 "	45	" .....	.....
" 1	" ..	261	Noe Forget, Ste. Agathe des Monts.	3 "	36	" .....	.....
Jan. 20	Sirop de Table.	2736	L. G. Fournier, Montmagny.	3 tins.	60	Canada Starch Co., Cardinal.	.....
" 27	" ..	2740	Phileas Letourneau & Cie, St. Pierre, Co. Montmagny.	3 "	60	" "	Carrier & fils, Levis.
Feb. 1	Sirop Doré..	56442	H. J. Serois & Cie, Cacouna.	3 "	90	.....	T. Langlois, Fraserville.
" 3	Sirop Blé-dinde.	56144	Philodime Michaud, Isle Verte.	3 "	45	N. Rioux, Quebec .....	.....

DISTRICT OF THREE RIVERS—

Jan. 16	Sirop de Table. ..	3911	V. H. Ducharme, St. Felix.	5 lbs.	28	Canada Starch Co., Cardinal.	.....
" 18	" ..	3912	Joseph Desfresne, Joliette.	3 cans	33	" "	.....

SESSIONAL PAPER No. 14

TABLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane sugar.
				Direct.	Invert.	Differ- ence.			

Concluded.

	p.c.	p.c.	p.c.				p.c.	
.....	See	Sample	Nos.	3763	64694	...	3758	Chiefly glucose.
.....	76.00	24.00	0.62	+151.2	+147.6	3.6	2.7	3763 "
.....	See	Sample	Nos.	3763	64694	...	3765	"
.....		"		3763	64694	...	3774	"
.....		"		3763	64694	...	3781	"
.....		"		3763	64694	...	3784	"
.....		"		3763	64694	...	3788	"
Crown Brand.....		"		3763	64694	...	3501	"
.....		"		63900	52100	...	3502	"
.....	74.05	25.95	2.80	+81.0	+38.5	42.5	32.1	3508 Cane sugar and glu- cose.
Crown Brand.....	See	Sample	Nos.	3763	64694	...	3510	Chiefly glucose.
.....		"		3763	64694	...	3512	"
.....		"		3763	64694	...	3517	"
Crown Brand.....		"		3763	64694	...	3519	"
.....	78.95	21.05	2.68	+101.6	+64.7	36.9	27.8	3523 Cane sugar and glu- cose.
.....	See	Sample	Nos.	3763	64694	...	262	Chiefly glucose.
.....		"		3763	64694	...	263	"
.....		"		3763	64694	...	264	"
.....	See	Sample	Nos.	3763	64694	...	2739	Chiefly glucose.
.....		"		3763	64694	...	2740	"
.....		"		66844	63993	...	56442	Cane sugar syrup.
.....		"		3763	64694	...	56444	Chiefly glucose.

L. V. P. LAVALLEE, INSPECTOR.

.....	See	Sample	Nos.	3763	64694	...	3911	Chiefly glucose.
.....		"		3763	64694	...	3912	"

7 GEORGE V, A. 1917

BULLETIN No. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF THREE RIVERS							
1915.							
Jan. 19	Sirop de Table.	3913	Joseph Bordeleau, Joliette.	3 cans	45	Canada Starch Co., Cardinal.	
" 20	" ..	3914	W. M. Perrault, Joliette.	3 "	39	" "	
" 20	" ..	3915	J. A. Boisvert, Joliette.	3 "	50		Chevalier & Pouliot, Joliette.
" 21	" ..	3916	W. H. Lacasse, L'Assomption.	3 "	39	Canada Starch Co., Cardinal.	
" 21	" ..	3917	Edmund Lafortune, L'Assomption.	3 "	36	" "	
" 21	" ..	3918	Theodore Foisy, L'Assomption.	3 "	36	" "	
" 20	" ..	3919	C. Barette, Joliette.	3 "	36	" "	
" 27	" ..	3920	J. B. Rivest, Joliette.	3 "	36	" "	
DISTRICT OF EASTERN TOWNSHIPS							
Feb. 9	Sirop de Table.	1787	A. W. Beausoleil, Richmond Est.	2 lbs.	15	St. Lawrence Refinery, Ltd., Montreal.	
" 9	Sirop Barbadoes.	1788	H. Pepin & fils, Warwick.	1 pint	10	Dom. Molasses Co., Montreal.	
" 9	Sirop de Blé-dinde.	1789	E. W. S. Gibson, Danville.	2 lbs.	15	Canada Starch Co., Cardinal.	
" 10	" "	1790	P. Tourigny & fils, Victoriaville.	5 "	50	" "	
" 11	Table Karo	1791	Woodman & McKee, Coaticook.	2 "	15	Corn Products Refining Co., New York.	
" 16	Table Crown	1792	H. Lanctot & fils, Sherbrooke.	2 "	12	Canada Starch Co., Cardinal.	
" 17	Table Lily White.	1793	F. W. B. Melloon, Rock Island.	3 lbs.	25	Can. Starch Co., Cardinal.	
" 17	Table Karo.	1794	Gosselin & Paradis, Magog.	3 cans.	45	Corn Products Refining Co., New York.	
" 18	Table de Cannes.	1795	Tenny & Boudreau, Waterloo.	3 "	45	St. Lawrence Refining, Ltd., Montreal.	
" 25	Table de Table.	1796	H. Messier, St. Hyacinthe.	2 lbs.	13	Can. Starch Co., Cardinal.	
DISTRICT OF MONTREAL							
Jan. 28	Table Syrup	62671	J. A. Seguin, 34 Esbel st., Verdun.	3 tins.	39	Canada Starch Co.	
" 28	" ..	62672	J. E. Parent, 113 Esbel st., Verdun.	3 "	60	A. Lyle & Son.	
Feb. 2	" ..	62673	Dionne & Dionne, 4120 St. Cath. st. W., Westmount.	3 "	45	Corn Products Refining Co.	
" 12	" ..	62674	Hudon, Hebert & Cie., Montreal.	3 "	35	St. Lawrence Sugar Refining Co.	
Mar. 9	" ..	62675	Canada Maple Exchange, 101 Parthenais st., Montreal.	3 "	30	Vendors.	

SESSIONAL PAPER No. 14

TABLE SYRUP.

Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane Sugar.
				Direct.	Invert.	Differ- ence.			

Concluded.

	p. c.	p. c.	p. c.				p. c.	
	See	Sample	Nos.	3763	64694	.....	.....	3913
.....		"		3763	64694	.....	.....	3914
.....		"		3763	64694	.....	.....	3915
.....		"		3763	64694	.....	.....	3916
.....		"		3763	64694	.....	.....	3917
.....		"		3763	64694	.....	.....	3918
.....		"		3763	64694	.....	.....	3919
.....		"		3763	64694	.....	.....	3920

J. C. ROULEAU, INSPECTOR.

	See	Sample	Nos.						
.....				66537	64693	.....	.....	1787	Cane sugar and glucose.
Barbadoes.....				Molasses				1788	Molasses.
Corn Syrup.....	See	Sample	Nos.	3763	64694	.....	.....	1789	Chiefly glucose.
".....		"		3763	64694	.....	.....	1790	" "
Karo.....		"		66845	64691	.....	.....	1791	" "
Crown Brand.....		"		3763	64694	.....	.....	1792	" "
Lily White.....		"		66847	63991	.....	.....	1793	" "
Karo.....		"		66845	64691	.....	.....	1794	" "
.....		"		66537	64693	.....	.....	1795	Cane sugar and glucose.
.....				3763	64694	.....	.....	1796	Chiefly glucose.

D. J. KEARNEY, INSPECTOR.

	See	Sample	Nos.						
Crown Brand.....	See	Sample	Nos.	3763	64694	.....	.....	6397	Chiefly glucose.
Lyle's Golden Syrup.....		"		66944	63993	.....	.....	63972	Cane sugar syrup.
Karo Brand.....	74 20	25 80	0 91	113 4	139 0	3 4	2 6	63975	Chiefly glucose.
Crystal Diamond.....	See	Sample	Nos.	66537	64693	.....	.....	63974	Cane sugar and glucose.
Small's Standard.....	67 05	39 95	0 04	68 5	20 7	87 5	63 7	63976	Cane sugar syrup.

7 GEORGE V, A. 1917

BULLETIN No. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
Mar. 9	Table Syrup	62676	A. Beaudoin, 132 Delorimier st., Montreal.	3 tins.	39	Canada Starch Co., Ltd.	.....
" 15	" ..	62677	F. S. Potvin, 38 St. Edward st., Montreal.	3 "	60	.....	L. T. Prairie, Montreal.
" 16	" ..	62678	A. Picard, 97 Carrière st., Montreal.	3 lbs.	35	.....	P. Bastien, Montreal.
" 16	" ..	62679	N. Drouin, 678 Drolet st., Montreal.	3 tins.	36	Maples Ltd., Toronto ..	.....
" 17	" ..	62680	Fraser, Viger & Co., 309 St. James st., Montreal.	3 "	60	A. Lyle & Son.....	.....

DISTRICT OF VALLEYFIELD—

Feb. 19	Table Syrup	58251	Richer & Page, Valleyfield.	3 tins.	36	Canada Starch Co.....
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DISTRICT OF OTTAWA—

Jan. 28	Table Syrup	63577	John Hughes, Prescott.	2 lbs.	15	Canada Starch Co., Cardinal.	Mfrs.....
" 28	" ..	63578	Doyle Bros., Prescott.	3 tins.	45	St. Lawrence Sugar Refiners Ltd., Montreal	E. Gilmour, Brockville.
Feb. 4	" ..	63579	D.G. Cowan, 1227 Bank st., Ottawa.	3 "	30	A. Lyle & Sons, London, Eng.	.....
" 4	" ..	63580	Geo. H. Stoaite, 1117 Bank st., Ottawa.	2 lbs.	15	St. Lawrence Starch Co., Ltd.	.....
Feb. 8	" ..	63581	A. E. Rea Co., Ltd., Ottawa.	3 tins.	45	Edwardsburg Starch Co., Ltd., Cardinal.	.....
" 8	" ..	63582	" " ..	3 "	45	Westburn Sugar Refiners, Ltd., Greenock, Scotland.	.....

DISTRICT OF KINGSTON—

Feb. 1	Table Syrup	66536	W. E. Hopkinson, Kingston.	3 tins.	45	Canada Starch Co., Cardinal.	.....
" 3	" ..	66537	W. J. Nesbitt, Kingston.	3 "	45	St. Lawrence Sugar Refineries, Montreal.	.....
" 3	" ..	66538	J. Cullen, Kingston..	3 "	45	" " ..	.....
" 3	" ..	66539	C. Saunders, Kingston.	3 "	45	Canada Starch Co., Cardinal.	.....
" 3	" ..	66540	C. H. Pickering, Kingston.	3 "	45	" " ..	.....
" ..	" ..	66541	Anderson Bros., Kingston.	3 "	45	" " ..	.....

SESSIONAL PAPER No. 14

TABLE SYRUP.

Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane sugar.
				Direct.	Invert.	Differ- ence.			

Concluded.

	p. c.	p. c.	p. c.				p. c.	
Crown Brand.....	See	Sample	Nos.	3763	64694	...	62676	Chiefly glucose.
Yum Yum Bee Syrup.	85.20	14.80	0.19	+ 75.6	+ 49.6	26.0	19.6	62677 Cane sugar and glu- cose.
Sweet Sixteen	77.45	22.55	1.07	+129.6	+114.8	14.8	11.1	62678 Glucose and cane su- gar.
Golden Bell.	76.75	23.25	1.86	+111.6	+ 88.0	23.6	17.8	62679 Cane sugar and glu- cose.
Lyle's Golden Syrup..	See	Sample	Nos.	66844	63993	...	62680	Cane sugar syrup.

J. J. COSTIGAN, ACTING INSPECTOR.

Crown Brand.	See	Sample	Nos.	3763	64694	...	58251	Chiefly glucose.
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J. A. RICKEY, INSPECTOR.

Crown Brand Corn Syrup.	See	Sample	Nos.	3763	64694	...	63577	Chiefly glucose.
Crystal Diamond.		"		66537	64693	...	63578	Cane sugar and glu- cose.
Lyle's Golden Syrup..		"		66844	63993	...	63579	Cane sugar syrup.
Bee Hive, Corn Syrup.		"		63900	52100	...	63580	Chiefly glucose.
Lily White Corn Syrup.	See	Sample	Nos.	66847	63991	...	63581	Chiefly glucose.
Golden Syrup.	81.95	18.05	1.28	+ 21.8	+ 21.3	43.1	32.5	63582 Cane sugar syrup.

JAMES HOGAN, INSPECTOR.

.....	See	Sample	Nos.	3763	64694	...	60536	Chiefly glucose.
.....	78.95	21.05	4.30	+ 69.3	+ 34.0	35.3	26.6	60537 Cane sugar and glucose.
.....	See	Sample	Nos.	66537	64693	...	60538	
.....		"		3763	64694	...	60539	Chiefly glucose.
.....		"		3763	64694	...	60540	"
.....		"		3763	64694	...	60541	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON							
1915.							
Feb. 15	Table Syrup	66542	A. Kellaway, Belleville.	3 tins.	39	Canada Starch Co., Cardinal.	
" 15	" ..	66543	J. H. P. Young, Belleville.	3 "	45	" "	
" 16	" ..	66544	T. McIntosh, Cobourg.	3 "	45	" "	
" 16	" ..	66545	W. P. Platt, Cobourg.	3 "	45	" "	
DISTRICT OF TORONTO—							
Feb. 16	Table Syrup	64690	James Whinster, Aurora.	3 cans.	45		Perkins & Co., Toronto.
" 16	" ..	64691	C. S. McCauley, Newmarket.	3 "	45	Corn Products Refining Co., New York.	
" 17	" ..	64692	G. F. McDonald, Sutton.	3 "	45	St. Lawrence Starch Co., Ltd.	
" 18	" ..	64693	J. E. Beaton, Oshawa.	3 "	45	St. Lawrence Sugar Refineries, Montreal.	
" 18	" ..	64694	Malkinson Bros., Whitby.	3 "	45	Canada Starch Co.	
" 22	" ..	64695	T. J. Midland, 132 King St. E., Toronto.	3 "	30	A. Lyle & Son, London, Eng.	
" 22	" ..	64696	A. Provan, 134 King St. E., Toronto.	3 "	30	Dom. Molasses Co., Ltd., Halifax.	
" 22	" ..	64697	T. Eaton Co., Ltd., Yonge and Queen Sts., Toronto.	3 "	45	St. Lawrence Starch Co., Port Credit	
" 22	" ..	64698	T. P. Lobban Stores, 228 Queen st. E., Toronto.	3 cans.	45	Maples, Ltd., Toronto.	
" 24	" ..	64699	Ferguson Giles, 822 Yonge st., Toronto.	3 bots.	45		
DISTRICT OF HAMILTON—							
Mar. 2	Table Syrup	66844	J. H. Laird, Galt.	3 cans.	30		Unknown
" 2	" ..	66845	Anderson & Beattie, Hespeler.	3 "	45	Corn Products Refining Co., New York.	W. T. Wickham, Toronto.
" 3	" ..	66846	S. B. Bricker & Co., Waterloo.	3 "	38		Randall & Roos, Berlin.
" 3	" ..	66847	Durke & Co., Berlin.	3 "	50	Edwardsburg Starch Co., Cardinal.	
" 10	" ..	66848	J. L. Charles, Burford.	3 "	45		Eby Blain, Toronto.
" 10	" ..	66849	G. R. Millard, Brantford.	3 "	45		Geo. Watt & Sons, Ltd., Brantford.
" 11	" ..	66850	Book Grocery Store, Beamsville.	3 "	45		Balfour Smye & Co., Hamilton
" 12	" ..	66851	Powell & Co., Ltd., Dundas.	3 "	45		Geo. E. Bristol & Co., Hamilton
" 12	" ..	66852	R. Clark, Dundas.	3 "	45		"
" 13	" ..	66853	E. H. Soules, 99 John st. South, Hamilton.	3 "	45	St. Lawrence Sugar Refineries, Montreal.	

SESSIONAL PAPER No. 14

TABLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane Sugar.
				Direct.	Invert.	Differ- ence.			

Concluded.

	p. c.	p. c.	p. c.				p. c.	
.....	See	Sample	Nos.	3763	64694	.....	66542	Chiefly glucose.
.....		"		3763	64694	.....	66543	"
.....		"		3763	64694	.....	66544	"
.....		"		3763	64694	.....	66545	"

H. J. DAGER, INSPECTOR.

Sailor Boy.....	76.05	23.95	0.68	+149.6	+146.3	3.3	2.5	64690	Chiefly glucose.
Karo.....	76.30	23.70	0.43	+151.4	+139.3	12.1	9.1	64691	"
Bee Hive.....	See	Sample	Nos.	63900	52100	.....	.....	64692	"
Crystal Diamond.....	78.70	21.30	4.28	+69.6	-34.3	35.3	26.6	64693	Cane sugar and glucose.
Crown Brand.....	77.20	22.80	0.79	+156.6	+152.5	4.1	3.1	64694	Chiefly glucose.
Lyle's Golden Syrup..	See	Sample	Nos.	66844	63993	.....	.....	64695	Cane sugar syrup.
Golden Sling.....		"		53185	52101	.....	.....	64696	"
White Clover.....	77.49	22.60	0.48	+142.4	+132.0	12.4	9.4	64697	Chiefly glucose.
Golden Belle.....	76.60	23.40	1.44	+125.6	+110.7	14.9	11.2	64698	"
Bottled by Vendor..	65.80	34.20	0.18	+63.8	+20.0	83.8	63.2	64699	Cane sugar syrup.

H. J. DAGER, ACTING INSPECTOR.

Lyle's Golden Syrup.	82.05	17.95	1.87	+19.9	-23.0	42.9	32.3	66844	Cane sugar syrup.
Karo.....	76.30	23.70	0.44	+151.4	+139.5	11.9	9.0	66844	Chiefly glucose.
Bee Hive.....	See	Samples	Nos.	63900	52100	.....	.....	66844	"
Lily White.....	76.70	23.30	0.19	+148.8	+131.1	17.7	13.2	66847	Glucose and cane syrup.
Caramel Pan Cake..	69.70	30.30	0.54	+117.7	+92.4	24.8	18.7	66848	"
Crown Brand.....	See	Samples	Nos.	3763	64694	.....	.....	66849	Chiefly glucose.
Tartan Brand.....	76.10	23.90	0.68	+150.6	+150.7	4.9	3.7	66850	"
Sweet Sixteen.....	74.50	25.50	1.25	+111.4	+90.8	20.8	15.7	66851	Glucose and cane syrup.
Cane Sugar Syrup.....	78.80	21.20	0.97	+9.2	-23.0	32.2	24.4	66852	Cane sugar syrup.
Crystal Diamond.....	See	Samples	Nos.	60537	64693	66853	Cane sugar and glucose.

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BULLETIN No. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1915.							
Feb.	9	Table Syrup	63990 Moylan & Moylan, St. Thomas.	3 tins.	39	St. Lawrence Starch Co.	.....
"	9	"	63991 D. H. McIntyre, St. Thomas.	3 "	45	Edwardsburg Starch Co.	.....
"	9	"	63993 R. H. Cook, St. Thomas	3 "	38	A. Lyle & Sons, London, Eng.	.....
"	9	"	63995 Chas. C. Raison, St. Thomas.	3 "	40	American Sugar Refining Co.	.....
"	16	"	54704 R. McIntosh, London	3 "	39	St. Lawrence Starch Co.	.....
"	16	"	54705 H. Beren, London	3 "	30	A. Lyle & Sons, London, Eng.	.....
"	16	"	54709 Wyckoff & Gafney, London.	3 "	45	Can. Starch Co., Cardinal.	.....
"	16	"	54712 Alfred Cane, London South.	3 "	45	Am. Sugar Refining Co., Jersey City.	.....
"	18	"	54719 W. R. Butcher, St. Marys.	3 "	30	John Walker & Co., Greenock, Scot.	.....

DISTRICT OF MANITOBA—

Feb.	1	Table Syrup	53181 H. Woodley, 470 Burrows, Winnipeg.	3 cans.	45	Corn Products Refining Co., New York.	Macdonald Consolidated, Winnipeg.
"	1	"	53182 " " "	2 lbs.	25	A. Lyle & Son, London, Eng.	"
"	1	"	53183 S. J. Deroche, Burrows ave., Winnipeg.	3 tins.	40	St. Lawrence Starch Co.	A. McDonald, Winnipeg.
"	1	"	53184 " " "	3 "	40	Edwardsburg Starch Co., Ltd., Cardinal.	.....
"	2	"	53185 Wilton & Conley, 1322 Main st., Winnipeg.	3 "	60	Dominton Molasses Co., Halifax.	.....
"	2	"	53186 " " "	3 "	45	Edwardsburg Starch Co., Cardinal.	.....
"	2	"	53187 Moffett & Douglas, Selkirk ave., Winnipeg.	3 "	45	St. Lawrence Starch Co., Ltd.	.....
"	2	"	53188 " " "	3 "	65	A. Lyle & Sons, London, Eng.	.....
"	3	"	53189 H. Carter, St. James st., Winnipeg.	3 "	45	Edwardsburg Starch Co., Ltd., Cardinal.	.....
"	3	"	53190 N. Posner, St. James st., Winnipeg.	3 "	45	" "	.....

DISTRICT OF SASKATCHEWAN—

Jan.	26	Table Syrup	66301 Halliday & Carlisle, Indian Head.	3 cans.	75	A. Lyle & Sons. ....	.....
"	27	"	66310 Claxton Bros. & Co., Grenfell.	3 "	75	" "	Jobin & Marrin, Winnipeg.
"	27	"	66312 Greenless & Sons, Grenfell.	3 "	60	St. Lawrence Starch Co.	"
"	28	"	66319 Whitewood Supply Co., Whitewood.	3 "	45	" "	Brandon Grocery Co.

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TABLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Water.	Ash.	Polarization.			Cane sugar.		
				Direct.	Invert.	Differ- ence.			
JNO. TALBOT, INSPECTOR.	p. c.	p. c.	p. c.				p. c.		
Bee Hive Corn Syrup..	79.35	20.65	0.82	+155.2	+150.5	4.7	3.5	63990	Chiefly glucose.
Lily White Corn Syrup	77.10	22.90	0.22	+149.4	+131.8	17.6	13.3	63991	Glucose and cane syrup.
Lyle's Golden Syrup..	81.35	18.65	1.67	+ 19.9	- 22.8	42.7	32.2	63993	Cane sugar syrup.
Dom. Pure Cane Sugar Syrup.	See	Samples	Nos.	54712	66852	.....	.....	63959	"
Bee Hive.....	"	"	"	63900	52100	...	...	54704	Chiefly glucose.
Lyle's Golden Syrup..	"	"	"	66844	63993	....	....	54705	Cane sugar syrup.
Crown Brand, Corn Syrup.	"	"	"	3763	64694	---	---	54709	Chiefly glucose.
Crystal Diamond, Pure Cane Syrup.	78.60	21.40	0.94	+ 9.8	- 23.1	32.9	24.8	54712	Cane sugar syrup.
Walker's Royal Scotch Golden Syrup.	80.50	19.50	3.33	+ 23.2	- 27.5	50.7	38.3	54719	"

A. C. LARIVIERE, INSPECTOR.

Karo.....	74.60	25.40	1.43	+136.6	- 130.2	6.4	4.8	53181	Chiefly glucose.
.....	See	Samples	Nos.	66844	63993	.....	.....	53182	Cane sugar syrup.
Bee Hive.....	"	"	"	63900	52100	.....	.....	53183	Chiefly glucose.
Corn Syrup.....	"	"	"	3763	64694	.....	.....	53184	"
Pure Cane Sugar Syrup	80.65	19.35	3.28	+ 37.4	- 13.9	55.1	41.5	53185	Cane sugar syrup.
Corn Syrup.....	See	Samples	Nos.	3763	64694	.....	.....	53186	Chiefly glucose.
.....	"	"	"	63900	52100	.....	.....	53187	"
Lyle's Golden Syrup ..	"	"	"	66844	63993	.....	.....	53188	Cane sugar syrup.
Corn Syrup	"	"	"	3763	64694	.....	.....	53189	Chiefly glucose.
"	"	"	"	3763	64694	.....	.....	53190	"

L. H. HALL, INSPECTOR.

Lyle's Golden Syrup ..	See	Samples	Nos.	66844	63993	.....	.....	66301	Cane sugar syrup.
.....	"	"	"	66844	63993	66310	"
Bee Hive.....	"	"	"	63900	52100	66312	Chiefly glucose.
.....	"	"	"	63900	52100	66319	"

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BULLETIN No. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1915.							
Jan. 28	Table Syrup	66321	J. J. Knowler & Co., Whitewood.	3 cans.	60	B.C. Sugar Refining Co., Vancouver.	Codville Co., Brandon.
" 28	"	66323	R. D. McNaughton & Co., Moosomin.	3 "	45	Can. Starch Co., Cardinal.	"
" 29	"	66327	J. P. Beauchamp Co., Qu'Appelle.	3 "	60	Corn Products Refining Co., New York.	"
" 29	"	66328	W. A. Caswell & Co., Qu'Appelle.	3 "	60	Can. Starch Co., Cardinal.	"
Feb. 3	"	66347	McKinnons, Ltd., Weyburn.	3 "	60	"	Weyburn Grocery.
" 4	"	66350	Curry Grocery, Moose Jaw.	3 "	60	B.C. Sugar Refining Co., Vancouver.	Codville Co., Moose Jaw.

DISTRICT OF ALBERTA—

Mar. 12	Table Syrup	52100	Urquhart & Co., Lacombe.	3 tins.	20	St. Lawrence Starch Co., Eng.	A. McDonald, Edmonton.
" 16	"	52101	Lake & Co., Wetaskiwin.	3 "	75	Lyle & Sons, London.	"
" 19	"	52102	John Irwin & Co., Calgary.	3 "	60	Can. Starch Co., Cardinal.	"
" 19	"	52103	"	3 "	60	B. C. Sugar Refining Co., Vancouver.	"
" 19	"	52104	"	3 "	60	Dominion Molasses Co., Halifax.	"
" 19	"	52105	Pryce Jones (Canada) Ltd., Calgary.	3 "	75	B. C. Sugar Refining Co., Vancouver.	"
" 22	"	52106	Hudson's Bay Co., Calgary.	3 "	60	"	"
" 22	"	52107	"	"	"	Can. Starch Co., Cardinal.	"
" 22	"	52108	Geo. J. Wood, Calgary.	3 "	60	Corn Products Refining Co., New York.	"
" 22	"	52109	S. J. Freeze, Calgary.	3 "	90	B. C. Sugar Refining Co., Vancouver.	"

DISTRICT OF ROCKY MOUNTAINS—

Feb. 1	Table Syrup	61746	Bell Trading Co., Nelson, B.C.	3 tins.	60	Kelly Confection Co., Vancouver, B.C.	"
" 1	"	61747	"	3 "	75	"	"
" 1	"	61748	"	3 "	60	Edwardsburg Starch Co., Cardinal.	"
" 6	"	61750	L. C. Masson, Revelstoke, B.C.	3 "	60	Kelly Confection Co., Vancouver, B.C.	"
" 6	"	61759	G. W. Bell, Revelstoke, B.C.	3 "	75	A. Lyle & Sons, London, Eng.	"
" 10	"	61760	The S. A. F. E. Ltd., Salmon Arm, B.C.	3 "	60	B. C. Sugar Refining Co., Vancouver.	"

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TABLE SYRUP.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane sugar.
				Direct.	Invert.	Differ- ence.			

Concluded.

	p.c.	p.c.	p.c.			p.c.		
See Samples Nos.	52109	52103					66321	Cane sugar syrup.
"	3763	64694					66323	Chiefly glucose.
"	66845	64691					66327	"
Edwardsburg Brand..	3763	64694					66328	"
"	3763	64694					66347	"
Rogers Golden Syrup.	52109	52103					66350	Cane sugar syrup.

A. W. R. MARKLEY, INSPECTOR.

See Samples Nos.	78.50	21.50	0.90	+ 146.6	+ 143.2	3.4	2.6	52106	Chiefly glucose.
"	See	Sample	Nos.	66844	63993			52101	Cane sugar syrup.
Corn syrup.	"	"		3763	64694			52102	Chiefly glucose.
Golden Syrup	82.85	17.15	1.50	+ 19.1	+ 17.3	36.4	27.4	52103	Cane sugar syrup.
Golden Sling.	75.95	24.05	4.00	+ 42.6	+ 13.2	55.8	42.0	52104	"
"	See	Sample	Nos.	52109	52103			52105	"
Rogers Golden Syrup.	"	"		52109	52103			52106	"
Crown Brand.	"	"		3763	64694			52107	Chiefly glucose.
Karo Brand.	"	"		66845	64691			52108	"
Rogers Golden Syrup.	82.90	17.10	1.46	+ 19.4	+ 17.4	36.8	27.7	52109	Cane sugar syrup.

THOS. PARKER, INSPECTOR.

Sugar Drops	75.95	24.05	2.52	+ 87.6	+ 44.9	42.7	32.2	61740	Cane sugar and glucose.
Best Blend	75.60	24.40	1.87	+ 96.0	+ 44.4	51.6	39.0	61741	"
Crown	See	Sample	Nos.	3763	64694			61742	Chiefly glucose.
Confection Brand	75.60	24.40	2.80	+ 100.4	+ 77.4	23.0	17.3	61743	Cane sugar and glucose.
"	See	Sample	Nos.	66844	63993			61744	Cane sugar syrup.
Rogers	"	"		52109	52103			61745	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1915.							
Feb. 10	Table Syrup	61761	The S. A. F. F. Ltd., Salmon Arm, B.C.	3 tins.	60	West Sugar Refineries, Greenock, Scot.	Leesor, Dickie & Gross, Vancouver
" 15	"	61768	Munn Bros., Kamloops, B.C.	3 "	45	St. Lawrence Starch Co., Prescott.	"
Mar. 16	"	61785	Hunter Bros., Rossland, B.C.	3 "	1.35	Ramsay's, Vancouver...	"
" 16	"	61789	Agnew & Co., Rossland, B.C.	3 "	75	A. Lyle & Sons, London, Eng.	"

DISTRICT OF VANCOUVER—

Jan. 26	Table Syrup	55178	Woodward Dept. Stores, Vancouver, B.C.	1 tin.	15	B. C. Sugar Refining Co., Vancouver.	.....
" 26	"	55179	Edgett Stores Ltd., Vancouver, B.C.	1 "	15	Can. Starch Co., Cardinal.	.....
" 26	"	55180	H. Newell, 575 Hastings St. E., Vancouver, B.C.	1 "	15	Ramsays Bros. & Co., Ltd., Vancouver.	.....
" 26	"	55181	Exenos & Daldas, 800 Hastings St. E., Vancouver, B.C.	1 "	15	A. Lyle & Sons, London, Eng.	.....
" 26	"	55182	John Gogowris, 546 Princess Ave., Vancouver, B.C.	1 "	15	Kelly Confection Co. Ltd., Vancouver.	.....
" 27	"	55183	Peter Torrance, 898 Keefer St., Vancouver, B.C.	1 "	15	Corn Products Refining Co., New York.	.....
" 28	"	55184	David Spencer Ltd., Vancouver, B.C.	1 "	15	St. Lawrence Starch Co.	.....
" 28	"	55185	Hudson's Bay Co., Vancouver, B.C.	1 "	30	Pacific Coast Syrup Co., San Francisco.	.....
" 29	"	55186	C. A. Welch Ltd., 681 Columbia St., New Westminster, B.C.	1 "	35	Ramsay Bros. & Co., Ltd., Vancouver.	.....
" 29	"	55187	" " "	1 "	30	Kelly Confections Co. Ltd., Vancouver.	.....

DISTRICT OF VICTORIA—

Feb. 9	Table Syrup	62041	Windsor Grocery Co., Victoria, B.C.	1 pt.	20	B. C. Sugar Refining Co., Vancouver.	.....
" 9	"	62042	" " "	1 qt.	35	Pacific Coast Syrup Co., San Francisco.	.....
" 9	"	62045	West End Grocery Co. Ltd., Victoria, B.C.	1 tin.	20	A. Lyle & Sons, London Eng.
" 10	"	62047	F. E. Plummer, Victoria, B.C.	2 lb.	25	R. P. Rithet & Co., Victoria, B.C.

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TABLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.			Cane Sugar.			
				Direct.	Invert.	Differ- ence.				
<i>Concluded.</i>										
	p. c.	p. c.	p. c.				p. c.			
.....	80.75	19.25	0.75	+ 27.9	- 14.4	42.3	31.9	61761		
.....	See	Sample	Nos.	63900	52109	.....	.....	61768	Chiefly glucose.
Imperial.....	66.75	33.25	0.10	+ 62.8	- 20.8	83.6	63.1	61785	Cane sugar syrup.	
.....	See	Sample	Nos.	66844	63993	.....	.....	61789	"

E. J. MORGAN, INSPECTOR.

Rogers Golden Syrup.	See	Sample	Nos.	52106	52103	.....	.....	55178	Cane sugar syrup.
Crown Brand. Corn Syrup.	"	"	"	3763	64694	.....	.....	55179	Chiefly glucose.
Manilla Golden Drips	77.30	23.30	1.48	98.7	+ 40.8	57.9	43.6	55180	Cane sugar and glucose.
Lyles Golden Syrup.	See	Sample	Nos.	66844	63993	.....	.....	55181	Cane sugar syrup.
Confection Brand Corn and Sugar Refiner Syrup.	72.60	27.40	2.66	108.6	+ 95.0	13.0	9.8	55182	Chiefly glucose.
Karo.....	See	Sample	Nos.	66845	64691	.....	.....	55183	
Bees Hives, 90% Corn, 10% Cane.	"	"	"	63900	52100	.....	.....	55184	
Ten Garden Brand, Sugar and Corn Syrup	74.90	25.10	1.55	+ 89.4	- 33.2	56.2	42.3	55185	Cane sugar and glucose.
Imperial Brand	64.95	35.05	0.22	50.0	- 21.0	71.0	53.5	55186	Cane sugar syrup.
Best Blend, Corn and Sugar Cane Syrup.	74.60	25.35	2.26	80.0	- 23.8	56.2	42.3	55187	Cane sugar and glucose.

D. O. SULLIVAN, INSPECTOR.

Rogers Golden Syrup.	See	Sample	Nos.	52109	52103	.....	.....	62011	Cane sugar syrup.
Ten Garden Brand	74.45	25.55	1.33	+ 82.6	- 30.6	52.0	39.2	62012	Cane sugar and glucose.
Lyles Golden Syrup	See	Sample	Nos.	66844	63993	62013	Cane sugar syrup.
"	"	"	"	66844	63993	62017	"

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BULLETIN No. 320—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1915.							
Feb. 10	Table Syrup	62050	Henry W. Driver, Gates St., Victoria, B.C.	2 lb.	15	Can. Starch Co., Cardinal.	...
" 11	"	62052	Fairfield Grocery, Victoria, B.C.	2 "	15	B.C. Sugar Refining Co., Vancouver.	...
" 11	"	62054	Linden Grocery, Victoria, B.C.	2 "	15	Corn Products Refining Co., New York.	...
" 11	"	62055	" " "	2 "	15	St. Lawrence Starch Co., Port Credit.	...
" 12	"	62060	Dixi H. Ross, Victoria, B.C.	1 qt.	35	Pacific Coast Syrup Co., Seattle.	...
" 12	"	62064	Copas & Young, Victoria, B.C.	1 "	25	Ramsay Bros. & Co., Vancouver.	...

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TABLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Solids.	Water.	Ash.	Polarization.					Cane sugar.
				Direct.	Invert.	Difference.			

Concluded.

	p. c.	p. c.	p. c.		*		p. c.		
	See	Sample	Nos.						
Crown Brand.				3765	64694	.....		62050	Chiefly glucose,
Rogers Golden Syrup.	"	"	"	52109	52103	...		62052	Cane sugar syrup.
Karo	"	"	"	66845	64691	.....		62054	Chiefly glucose.
Bee Hive.....	"	"	"	63900	52100	...		62055	"
.....	73.75	26.25	1.12	+ 91.6	+ 36.1	55.5	41.9	62060	Cane sugar and glu-
Manilla Golden Drops.	72.00	28.00	1.96	+ 73.2	+ 8.1	65.1	49.1	62064	cose. Cane sugar and some glucose

APPENDIX L.

BULLETIN No. 321—LIME JUICE.

OTTAWA, September 1, 1915.

J. U. VINCENT, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I beg to hand you herewith a report upon eighty-three (83) samples purchased as Lime Juice by our inspectors in April, May and June of this year. This inspection was undertaken in consequence of complaints to the effect that this article was extensively adulterated, in the sense of being much below the legal standards for Lime Juice.

By Order in Council of 28th January last, the following standards were legalized, as under Section 26 of the Adulteration Act.

Lime Juice, Lime Fruit Juice, is the freshly expressed juice of the ripe fruit of Citrus (various species; and has a specific gravity at 20° C. of not less than 1.030 and not greater than 1.040, and contains not less than eight (8) per cent of solids and not less than seven (7) per cent of free citric acid. Its optical activity (rotatory power to polarized light) lies between the limits of +0.5° and —1.0° of the Soleil-Ventzke scale, when observed in a column of 200 mm. length at 20° C.

These standards only differ from those established by Order in Council of 11th February, 1911, in the following particulars:—

1. Recognizes various species of Citrus instead of *C. limetta* only, as sources.
2. Fixes 8 per cent solids instead of 10 per cent as in the earlier standards.
3. An optical activity between the limits of +0.5° and —1.0° is recognized, instead of +0.5° to —0.5° as in the Order in Council of 1911.

These changes have the effect of making the standards less exacting than formerly, in consequence of which any failures to meet existing standards are less excusable.

The results of this inspection may be summarized as follows:—

Found genuine	40	samples.
Found nearly genuine, and passed as acceptable	14	"
Found not sold as Lime Juice	2	"
Found adulterated, as departing notably from the legal standard	27	"
	—	
Total	83	"

It will be noted that 43 samples contain preservatives, benzoic, salicylic or sulphurous acids. In none of these cases is any statement declaring the presence of a preservative, made upon the label. This is in violation of Order in Council dated 4th April, 1914, (published as Circular G. 1111) which requires that, preservatives of the class which includes those above named, shall be declared on the label, when

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present. This Order in Council further limits the amount of preservative which may be present, and requires that not more than one kind of preservative shall be added to any one kind of food, or to any mixture of two or more kinds of food.

The limits fixed as regards Lime Juice are as follows:—

Benzoic acid:	1 part in 1,000 parts.
Salicylic acid:	1 part in 5,000 parts.
Sulphurous acid	1 part in 10,000 parts.

Three samples (55266, 66730 and 66738) violate these limits by containing more than one preservative each. Two samples (52160 and 61835) violate these limits by containing more than the permitted amount of the preservative present.

In most cases, the amount of preservative present is well within the prescribed limit, and in many cases, is properly described as a trace only, and therefore negligible.

On account of the long established usage of preservative in this article and the comparatively recent enactment of standards in regard to preservatives, I would recommend that samples otherwise genuine, be treated leniently so far as declaration is concerned; but with the understanding that, after this notification and warning all violations of departmental requirements will be strictly dealt with.

I beg to recommend publication of this report as Bulletin No. 321.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 321—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
June 25	Lime Juice...	54061	Wentzell's, Ltd., Halifax, N.S.	3 bots.	75	Howard M'fg. Co., Halifax.	Mfrs
" 25	" ...	54062	Knoche & Nicolle, Halifax, N.S.	3 "	75	Francis Drake, New Glasgow.	A. & W. Smith Co., Halifax.
" 25	" ...	54063	W. P. Meyer, Halifax, N.S.	3 "	45	E. S. Tracey M'fg. Co., Halifax.	Mfr
July 1	" ...	54064	E. P. Theriault, Weymouth.	3 "	75	Nat. Drug and Chem. Co., St. John, N.B.	"
" 13	" ...	54065	B. O. Bishop, Dartmouth.	3 "	45	Howard M'fg. Co., Halifax.	Wentzell's Ltd., Halifax.

DISTRICT OF NOVA SCOTIA—

June 4	Lime Juice...	65860	A. J. Roop, New Glasgow.	3 bots.	75	L. Rose & Co., London, Eng.	.....
" 4	" ...	65861	A. A. McDonald, New Glasgow.	3 "	45	Nat. Drug Co., Halifax.	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Apr. 30	Lime Juice...	60180	J. G. Passmore, Charlottetown.	3 bots.	36	Nat. Drug and Chem. Co., Halifax.	.....
" 30	" ...	60181	" " "	3 "	60	.....	R. E. Mutch & Co., Charlottetown.
May 7	" ...	60182	W. W. Walker, Charlottetown.	3 "	75	L. Rose & Co., London, Eng.	.....

DISTRICT OF NEW BRUNSWICK—

May 10	Lime Juice...	66086	Nat. Drug and Chem. Co., St. John.	3 "	45	.....	Nat. Drug and Chem. Co., Montreal.
" 13	" ...	66087	The Can. Drug Co., Ltd., St. John.	3 "	25	.....	G. P. Mitchell & Son, Halifax.
" 17	" ...	66088	Baird & Peters, St. John.	3 "	100	.....	Nat. Drug and Chem. Co., St. John.
" 18	" ...	66089	G. E. Barbour Co., Ltd., St. John.	3 "	30	Vendors..	.....
" 26	" ...	66090	The Baird Co., Ltd., Woodstock.	3 "	10	" . . . . .	.....

SESSIONAL PAPER No. 14

LIME JUICE.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total Solids.	Acidity as Citric Acid.	Rotation (2 dm.)		
				Found.		

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.				
.....	1-0449	8-58	5-21	+ 0-2	Trace salicylic acid.	54061	Citric acid, below standard. Adulterated.
.....	1-0278	6-74	6-02	+ 1-0	.....	54062	"
Gold Medal Brand..	1-0223	5-32	5-11	+ 0-5	Salicylic acid	54063	"
.....	1-0405	9-83	8-89	- 0-1	"	54064	Genuine, with a preservative.
.....	1-0305	7-43	7-00	+ 0-2	Trace salicylic acid.	54065	Solids slightly low. Pass.

W. A. PETIPAS, TEMPORARY INSPECTOR.

		p. c.	p. c.				
.....	1-0357	8-48	8-15	- 0-3	.....	65860	Genuine.
.....	1-0379	9-10	8-43	- 0-4	Trace salicylic acid.	65861	"

WM. A. WEEKS, INSPECTOR.

		p. c.	p. c.				
.....	1-0383	9-14	8-47	- 0-6	Trace salicylic acid.	60180	Genuine.
.....	1-0382	9-12	8-54	- 0-4	"	60181	"
.....	1-0357	8-50	8-12	- 0-3	"	60182	"

JOHN C. FERGUSON, INSPECTOR.

		p. c.	p. c.				
.....	1-0339	8-64	8-12	- 0-4	.....	60080	Genuine.
.....	1-0531	12-12	10-18	- 0-3	Salicylic acid	60087	excess of strength.
.....	1-0350	8-37	8-03	- 0-2	"	60088	"
.....	1-0307	9-30	8-71	- 0-4	Trace salicylic acid.	60089	"
.....	1-0392	9-30	8-03	- 0-4	"	60090	"

7 GEORGE V, A. 1917

BULLETIN No. 321—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC CITY—							
1915.							
April 20	Lime Juice...	56395	O. Lacroix, 19 rue St. Joseph, Quebec.	3 bots.	30	T. A. Lytle Co., Toronto.	Turcotte & Frere
" 20	" ..	56396	" " "	3 "	75	L. Rose, London..	J. B. Renaud & Cie.
" 20	" ..	56397	Elz. Turcotte, 74 Desfosse, Quebec.	3 "	1.50	Montserrat Co. Ltd., England.	Unknown ...
" 20	" ..	56398	" " "	3 "	75	Dalton Bros., Toronto.	"
" 20	" ..	56399	" " "	3 "	30	L. Rose Co. Ltd., London.	J. B. Renaud & Cie.
DISTRICT OF QUEBEC PROVINCE—							
May 4	Lime Juice...	282	F. D. Hall, Ste Agathe des Monts.	3 bots.	60	L. Rose & Co. Ltd.	.....
" 22	" ..	56458	Fraserville Drug Co., Fraserville.	3 "	1.50	.....	Lymans Ltd., Montreal.
" 22	" ..	56461	Damen & Cie, Fraserville.	3 "	45	Sutcliffe & Bingham, Ltd.	.....
June 1	" ..	56464	F. Theriault, Fraserville.	3 "	90	L. Rose & Co., Ltd., London.	.....
DISTRICT OF THREE RIVERS—							
May 21	Lime Juice...	67957	A. C. Duff, Charlemagne.	3 bots.	75	N. D. & C. Co., Montreal.	.....
" 28	" ..	69107	Bellefenille Giroux, Three Rivers.	3 "	1.20	L. Rose & Co., Ltd., London.	.....
" 29	" ..	69108	O. Carignan & Fils, Three Rivers.	3 "	1.05	Evan Sons, Lescher & Webb.	N. D. & C. Co., Montreal.
June 1	" ..	69114	J. A. Boisvert, Joliette...	3 "	75	L. Rose & Co., Ltd., London.	Laporte & Martin, Montreal.
DISTRICT OF MONTREAL—							
May 7	Lime Juice...	62596	Viauville Cash Grocery, 89 St. Catherine street, Maisonneuve.	3 bots.	30	Green & Co., Toronto.	.....
" 17	" ..	62597	P. H. Theoret, 71 Vitre st. E., Montreal.	3 "	1.05	Finsbury Distillery Co., London.	.....
" 19	" ..	62598	The Royal George Grocery, 221 Bernard ave., Montreal.	3 "	30	L. Rose & Co., Ltd., London.	.....
June 7	" ..	62599	Dr. Champagne, 1314 Wellington st., Verdun	3 "	45	.....	Lymans Ltd....
" 9	" ..	62600	Louis Montplaisir, 582 St. Catharine st., Maisonneuve.	3 "	45	T. A. Lytle Co., Ltd., Toronto.	.....
DISTRICT OF VALLEYFIELD—							
June 9	" ..	57946	J. E. Baillargeon, Farnham.	3 bots.	60	Dalton Bros., Toronto.	.....

SESSIONAL PAPER No. 14

LIME JUICE.

Inspector's Report (is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)		
				Found.		

F. X. W. E. BELAN, INSPECTOR.

		p. c.	p. c.			
.....	1.0339	7.90	7.17	+ 0.6	Benzoic acid	56395 Genuine, with a preservative.
.....	1.0364	8.72	8.12	- 0.5	.....	56396 Genuine.
.....	1.1258	31.08	1.99	- 37.8	.....	56397 Sugared and watered. Sold as a cordial and not as lime juice.
.....	1.0419	9.78	7.49	- 2.2	Benzoic acid	56398 Genuine, with a preservative.
.....	1.0348	8.36	7.98	- 0.4	.....	56399 Genuine.

N. CADIEUX AND A. PELLETIER, TEMPORARY INSPECTORS.

.....	1.0356	8.40	7.91	0.0	.....	56400 Genuine.
.....	1.0285	6.90	6.40	- 0.1	Salicylic acid	56458 Solids and citric acid below standard. Adulterated.
.....	1.0262	6.32	6.02	- 0.3	"	56461
.....	1.0349	8.49	7.91	- 0.5	.....	56464 Genuine.

DR. V. P. LAVALLEE, INSPECTOR.

.....	1.0320	6.89	7.28	0.0	.....	60957 Solids somewhat low. Pass.
.....	1.0348	8.13	8.12	0.0	.....	60107 Genuine.
.....	1.0356	8.48	7.84	0.0	.....	60108 "
.....	1.0354	8.25	8.12	0.0	.....	60114

D. J. KEARNEY, INSPECTOR.

.....	1.0516	12.23	1.40	- 13.80	Salicylic acid	62206 Sold as a lime juice cordial; not as lime juice.
.....	1.0370	7.81	7.21	0.0	.....	62207 Genuine.
.....	1.0351	7.31	8.12	0.0	.....	62208 Solids slightly low. Pass.
.....	1.0326	6.86	7.28	0.0	Benzoic acid	62209 " " with preservative.
.....	1.0331	6.88	6.72	0.0	.....	62200 Solids slightly low. Pass.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1.0564	12.47	8.47	- 6.36	Benzoic acid	67916 Contains sugar. Otherwise genuine, with preservative. Pass.

7 GEORGE V, A. 1917

BULLETIN No. 321—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1915.							
April 24	Lime Juice...	63618	Casselman Bros., Morrisburg.	1 bot.	35	The Turner Co., Ltd., Toronto.	
" 30	" ...	63639	Jos. Grant, York street, Ottawa.	3 "	75	T. A. Lytle Co., Ltd., Toronto.	
May 4	" ...	63653	The F. J. Castle Co. Ltd., Wellington st., Ottawa.	1 "	19		N. D. & C. Co., Ottawa.
DISTRICT OF KINGSTON—							
April 28	Lime Juice...	68041	T. H. Sargent, Kingston..	3 bots.	75	E. G. West & Co., Toronto.	
" 28	" ...	68042	A. P. Chown, Kingston.	3 "	99		
" 28	" ...	68043	Geo. A. Mahood, Kingston	3 "	90	Lymans Ltd., Montreal.	
" 29	" ...	68044	A. Glover, Kingston.	3 "	75	L. Rose & Co., London.	
May 4	" ...	68045	D. G. Bleeker, Belleville.	3 "	105	Davis & Lawrence Co., Montreal.	
DISTRICT OF TORONTO—							
May 11	Lime Juice...	67069	R. A. Mason, Markham..	3 bots.	78	Sutcliffe & Bingham, Ltd., Manchester, Eng.	
" 13	" ...	67070	W. H. Parr, Beaverton...	3 "	75	Dalton Bros., Toronto.	
" 15	" ...	67071	The Playfair Preston Co., Midland.	3 "	45	T. A. Lytle Co., Toronto.	
" 20	" ..	67073	C. B. Shield, 1417 Queen street, W. Toronto.	3 "	105	Rowatt & Co., Glasgow.	
" 20	" ...	67076	E. C. Brown, 2489 Yonge street, Toronto.	3 "	45	E. G. West & Co., Toronto.	
DISTRICT OF HAMILTON—							
April 26	Lime Juice...	66988	J. C. Hadden, Guelph ...	3 bots.	75	G. F. Sutton Sons & Co., London, Eng.	Unknown.
" 26	" ...	66990	G. M. Jamieson, Fergus..	3 "	75	Dalton Brothers, Toronto.	
" 27	" ...	66991	H. E. Yeomen, Mount Forest.	3 "	75	Rowatt & Co., Glasgow.	Unknown. ...
May 5	" ...	66992	Stanley Mills & Co., 11 King st., E. Hamilton.	3 "	30	Sutcliffe & Bingham, Ltd., Manchester, Eng.	
" 5	" ...	66993	Peebles Hobson & Co., King and McNabb sts., Hamilton.	3 "	75	R. Fry & Co., Brighton.	
June 5	" ...	67086	Stanley Mills & Co., 11 King st., E. Hamilton.	3 "	105	Sutcliffe & Bingham, Ltd., Manchester, Eng.	
" 5	" ...	67087	Peebles Hobson & Co., 40 King st., W. Hamilton.	3 "	75	R. Fry & Co., Brighton.	

SESSIONAL PAPER No. 14

LIME JUICE.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as citric acid.	Rotation (2 dm.)	Found.		
J. A. RICKEY, INSPECTOR.							
		p. c.	p. c.				
Turner's Lime Juice.	1.0282	6.30	6.23	0.0	.....	63618	Below standard. Adulterated.
Sterling Brand	1.0282	6.33	6.09	0.0	.....	63639	" " "
Olympia, quality guaranteed.	1.0347	7.83	7.49	0.0	.....	63653	Genuine.
JAMES HOGAN, INSPECTOR.							
.....	1.0348	7.55	7.21	0.0	.....	68041	Solids slightly low. Pass.
Olympia Brand.....	1.0289	6.27	6.65	0.0	.....	68042	Solids and citric acid low. Adulterated.
.....	1.0334	8.19	8.05	0.0	Benzoic.....	68043	Genuine, with a preservative.
.....	1.0334	7.86	7.77	0.0	.....	68044	Genuine
.....	1.0304	6.91	7.14	0.0	.....	68045	Solids slightly low Pass.
H. J. DAGER, INSPECTOR.							
Kkovich Lime Juice..	1.0270	6.28	6.23	0.0	Salicylic	67069	Below standard. Adulterated.
Dalton's West India Lime Juice	1.0584	13.88	5.46	-9.2	Benzoic.....	67070	Contains added sugar. Adul- terated, as below legal acid strength.
Sterling Brand	1.0296	6.87	6.30	0.0	.....	67071	Below standard. Adulterated.
.....	1.0260	6.12	5.53	0.0	.....	67078	" " "
Royal Crest	1.0393	9.23	8.40	0.0	.....	67076	Genuine
H. J. DAGER, ACTING INSPECTOR							
.....	1.0282	6.50	6.44	0.0	Salicylic	66088	Below standard. Adulterated
.....	1.0531	12.25	7.91	-5.4	Benzoic	66089	Contains sugar. Otherwise genuine, with preservative. Pass.
.....	1.0300	7.10	6.51	0.0	.....	66091	Solids and acid low. Adul- terated.
Kkovich Lime Juice.	1.0274	6.29	5.88	0.0	Salicylic	66092	" " "
Labelled Pure Lime Juice	1.0357	8.39	7.98	0.0	.....	67093	Genuine.
Kkovich Pure Lime Juice	1.0318	7.48	7.01	0.0	Salicylic	67096	Solids somewhat low. Pass.
Labelled Pure Lime Juice	1.0360	8.40	7.91	0.0	.....	67097	Genuine.

7 GEORGE V, A. 1917

BULLETIN No. 321—

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1915.							
Apr. 21	Lime Juice....	54766	J. P. Sheppard, Clinton..	3 bts.	1.20	Montserrat Co. Ltd., London E.	
" 23	" ...	54789	Dicksons, St. Mary's....	3 "	75	Imperial Extract Co. Toronto.	
" 23	" ...	54791	F. W. Hutton, St. Mary's	3 "	30	L. Rose & Co. Ltd. London, Eng.	
" 25	" ...	54794	Standard Drug Co., London	3 "	75	Nat. Drug Co., Canada.	
DISTRICT OF MANITOBA—							
May 18	Lime Juice....	61282	The Minnedosa Pharmacy Minnedosa.	3 bts.	1.05	The Bole Drug Co. Winnipeg.	
" 18	" ...	61233	P. W. Hutton, Minnedosa	3 "	1.00	Western Mfg. Co., Winnipeg.	
" 19	" ...	61284	J. A. Dunkin, Portage-la-Prairie.	3 "	45	The Bole Drug Co. Winnipeg.	
" 25	" ...	61285	J. Paterson, Winnipeg....	3 "	75	The White Star Mfg. Co. Winnipeg.	
" 25	" ...	61286	" " ...	3 "	75	The Blackwoods Ltd. Winnipeg	
DISTRICT OF ALBERTA—							
Apr. 30	Lime Juice....	52157	Hudson's Bay Co. Edmonton.	3 Lts.	90	Imperial Extract Co. Toronto.	
May 1	" ...	52158	J. H. Morris, Edmonton.	3 "	45	White Star Mfg. Co. Winnipeg.	
" 20	" ..	52159	Wendell Maclean, Calgary	3 "	1.05	G. F. Sutton Sons & Co. London E.	
" 21	" ...	52160	Nat. Drug & Chem. Co Calgary.	3 "	1.15	Vendors	
June 17	" ...	52161	Geo. Kerr, Lethbridge....	3 "	1.05	L. Rose & Co. Ltd. London, Eng.	
DISTRICT OF ROCKY MOUNTAINS—							
Apr. 26	Lime Juice....	61864	E. W. Hazlewood, Trail.	3 bts.	1.50	Nat. Drug & Chem. Co. Vancouver.	
May 20	" ..	61821	Sun Grocery Co. Cranbrook.	3 "	1.05	Imperial Extract Co. Toronto.	Jobbers Limited Cranbrook.
June 10	" ...	61829	A. Hobson, Revelstoke...	3 "	1.50	Kelly Douglass & Co. Vancouver.	
" 16	" ...	61835	L. C. Masson, " ...	3 "	1.50	W. H. Malkin Co. Vancouver.	
" 10	" ...	61836	" " "	3 "	2.25	Kops Breweries London, Eng.	

SESSIONAL PAPER No. 14

LIME JUICE.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and opinions of the Chief Analyst.
	Sp. gr. of Juice.	Total solids.	Acidity as Citric Acid.	Rotation in 2 dm.	Found.		

JOHN TALBOT, INSPECTOR.

		p. c.	p. c.				
Montserrat Lime	1-0352	8-07	7-91	0-0	.....	54766	Genuine.
Fruit Juice.							
Yacht Club.	1-0237	5-56	5-67	0-0	Salicylic.....	54789	Below standard. Adulterated.
Rose Prepared West	1-0360	8-47	8-05	0-0	.....	54791	Genuine.
India Lime Juice.							
Olympia.....	1-0320	7-44	7-35	0-0	.....	54794	Solids somewhat low. Pass.

A. C. LARIVIERE, INSPECTOR.

		p. c.	p. c.				
.....	1-0311	7-76	6-93	-0-4	.....	61282	Genuine.
.....	1-0192	4-00	3-50	-0-4	Salicylic.....	61283	Below standard. Adulterated.
.....	1-0400	8-60	6-65	-0-1	.....	61284	Acid slightly low. Pass.
.....	1-0310	7-46	6-93	-0-5	.....	61285	Solids slightly low. Pass.
.....	1-0321	7-65	7-14	-0-6	.....	61286	.....

A. W. R. MARKLEY, INSPECTOR

		p. c.	p. c.				
Imperial.....	1-0205	6-41	5-16	-0-4	Contains artificial colouring.	52157	Below standard. Adulterated.
White Star.....	1-0305	8-56	6-72	-0-4	Salicylic acid 0-30 pts per 5000.	52158	Genuine, with preservative.
West Indian.....	1-0268	7-73	5-69	-0-2	Salicylic acid 0-63 pts per 5000.	52159	Below standard. Adulterated.
Sovereign.....	1-0322	8-76	7-03	-0-3	Sulphurous acid 3-12 pts per 10,000.	52160	Genuine, with preservative in cases.
Rome's.....	1-0357	9-37	7-85	-0-4	Sulphurous acid 0-05 pts per 10,000.	52161	.....

THOS. PARKER, INSPECTOR

		p. c.	p. c.				
.....	1-0290	5-93	4-65	-0-2	Salicylic acid 1-0-48 pts per 5000.	61801	Below standard. Adulterated.
Yacht Club.....	1-0180	5-54	4-21	-0-2	Salicylic acid 0-65 pts per 5000.	61821	.....
Nabob.....	1-0341	9-10	7-60	-0-6	Sulphurous acid 0-10 pts per 10,000.	61822	Genuine, with preservative.
.....	1-0353	9-47	7-90	-0-2	Salicylic acid 1-2-00 pts per 5000.	61823	Genuine, with preservative in cases.
.....	1-0315	8-65	7-00	-0-6	Sulphurous acid 0-04 pts per 10,000.	61824	.....

7 GEORGE V, A. 1917

BULLETIN No. 321—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1915.							
May 22	Lime Juice...	55266	Cochrane & Elliott, 657 15th Ave., E. Vancouver	3 bots.	75	Leesor, Dickie, Gross & Co., Ltd., Vancouver.	
" 22	" ..	55267	G. W. Bennett, 761 Kingsway, E. Vancouver.	3 "	75	Kelly, Douglas & Co., Ltd., Vancouver.	
" 25	" ..	55268	B. C. Market Co., 924 Grenville St., E. Vancouver.	3 "	75	Pure Fruit Packing Co., Vancouver.	
" 26	" ..	55269	Knight Bros., 11th Ave. and Commercial Drive, E. Vancouver.	3 "	120	W. H. Malkin Co., Ltd., Vancouver.	
" 27	" ..	55270	Annandale Supply Co., Columbia St., New Westminster.	3 "	75	Imperial Extract Co., Toronto.	

DISTRICT OF VICTORIA—

June 9	Lime Juice...	66727	H. O. Kirkham & Co., 741 Fort St., Victoria.	3 pts.	75	L. Ross & Co., Ltd., London, Eng.	
" 9	" ..	66730	Henry W. Driver, 856 Yates St., Victoria.	3 qts.	75		The Pure Fruit Packing Co., Vancouver.
" 11	" ..	66738	Geo. A. Fraser & Co., 914 Government St., Victoria.	3 bot.	75		N. D. & C. Co. Victoria.
" 11	" ..	66740	F. J. Williams, 613 Fort St., Victoria.	3 pts.	75	Alex. Riddle & Co., Ltd., London, Eng.	
" 15	" ..	66749	Ivel's Pharmacy, 1415 Government St., Victoria.	3 bots.	75	W. A. Ross & Bro., Belfast, Ireland.	

SESSIONAL PAPER No. 14

LIME JUICE.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Juice.	Total Solids.	Acidity as Citric Acid.	Rotation (2 dm.)	Found.		

E. J. MORGAN, INSPECTOR.

		p. c.	p. c.				
Labelled Finest West India Lime Juice.	1-0189	5.60	4.29	- 0.2	Salicylic acid 0.55 pts. per 5,000. Sulphurous acid 0.02 pts. per 10,000.	55266	Below standard. Adulterated. Contains two preservatives.
Columbia Brand ...	1-0159	5.16	3.60	- 0.1	Sulphurous acid 0.06 pts. per 10,000.	55267	Below standard. Adulterated.
Labelled Pure Fruit Lime Juice.	1-0112	3.66	2.54	+ 0.2	Salicylic acid 0.70 pts. per 5,000.	55268	"
Victoria Cross Brand	1-0346	9.27	7.69	0.0	Sulphurous acid 0.22 pts. per 10,000.	55269	Genuine, with preservative.
Yacht Club.....	1-0081	3.36	2.10	+ 0.3	Artificial ing. colour-	55270	Below standard. Adulterated.

D. O'SULLIVAN, INSPECTOR.

Rose's Prepared West India Lime Juice.	1-0357	9.91	7.70	- 0.9	Sulphurous acid 9.10 pts. per 10,000.	66727	Genuine, with preservatives.
Pure Fruit Lime Juice.	1-0165	5.05	3.70	- 0.1	Salicylic acid 2.75 pts. per 10,000. Sulphurous acid 0.07 pts. per 10,000.	66730	Below standard. Adulterated. Contains two preservatives.
	1-0196	5.58	4.55	- 0.2	Salicylic acid 0.50 pts. per 5,000. Sulphurous acid 1.01 pts. per 10,000.	66738	Below standard. Adulterated.
	1-0329	8.38	7.12	0.0	Sulphurous acid 0.94 pts. per 10,000.	66740	Genuine, with preservative.
	1-0337	8.82	7.54	- 0.9	Salicylic acid 0.35 pts. per 5,000.	66749	"

APPENDIX M.

BULLETIN No. 322—MAPLE CONFECTIONS.

OTTAWA, 17th. November, 1915.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report dealing with fifty-eight (58) samples of confections, characterized as maple products, by use of the word maple in the name under which they are sold.

Maple Sugar and Maple Syrup are defined by an Order in Council of 20 March, 1911 (published as Circular G. 994), effective from 27 November, 1911; and by an Amendment to the Adulteration Act, assented to, 12 June, 1914, and effective from 1 January, 1915 (published as Circular G. 1152.)

These articles have frequently been made the subject of inspection, the last report upon Maple Sugar having been published as Bulletin No. 258, in April 1913 and that upon Maple Syrup, as Bulletin No. 259, also in April, 1913.

A further amendment to the Act was assented to on the 15th. April of this year, and this Amendment takes cognizance of other maple products than sugar and syrup, and restricts the use of the word *maple* to sugar and syrup. The text of this amendment, so far as maple products are concerned, is as follows:—

1. Section 29a of the Adulteration Act, Chapter 133 of the Revised Statutes, 1906, as enacted by chapter 19 of the statutes of 1914, is repealed and the following is substituted therefor:—

MANUFACTURE OR SALE OF ADULTERATED MAPLE SUGAR OR SYRUP.

“29a. No person shall manufacture for sale, keep for sale, offer or expose for sale, or sell, any article of food resembling or being an imitation of maple sugar or maple syrup, or which is composed partly of maple sugar or maple syrup, and which is not pure maple sugar or pure maple syrup.

ADULTERATED MAPLE SUGAR OR SYRUP DEFINED.

“2. Any maple sugar or maple syrup which is not up to the standard prescribed by the sixth schedule to this Act, or, if such standard is changed by the Governor in Council, to such standard as the Governor in Council may from time to time prescribe, shall be deemed to be adulterated within the meaning of this Act.”

USE OF THE WORD “MAPLE” RESTRICTED TO PURE MAPLE SUGAR OR SYRUP.

“3. The word “maple” shall not be used, either alone or in combination with any other word or words, or letter or letters, on the label or other mark, illustration or device on a package containing any article of food, or on any article of food itself, which is not pure maple sugar or pure maple syrup, and any article of food labelled or marked in violation of this subsection shall be deemed to be adulterated within the meaning of this Act.”

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The order for collection of the articles now reported was issued on the 13th. April of this year, that is, before the last named amendment came into force; and for this reason, none of the samples are judged as adulterated. The object had in view from this inspection, was the ascertainment of the extent to which the word maple is actually in use as a designation of maple products other than sugar and syrup.

The result shows that, of the fifty-eight (58) samples reported, twenty-five (25) are sold as maple butter, five as maple cream and five as maple cheese. It is probable that in most of these cases, the employment of the words butter, cream and cheese, has regard primarily to the consistence of the article and is not intended to convey the idea that butter, cream or cheese enters into the composition of the confection.

A possible exception to this statement is found in an article of Maple Butter, manufactured by Maples, Limited, of Toronto. The label borne by this article contains the following:—

“Wholesome and delicious food luxury, made from pure Maple Sugar and fresh rich cream. For table use, in place of ordinary butter or jam; a superior substitute at less cost.”

These statements appear to claim for the article an actual butter content. We find only 0.12 per cent of butter fat in the samples examined here; and I have information, from other sources, that samples analyzed elsewhere have yielded only traces of butter fat. Under these circumstances, it is clear that the claim is entirely unwarranted, and is misleading. Undoubtedly, a small amount of milk or cream has been used in the manufacture; but this amount is so insignificant that to claim a food value for it, or to insinuate that it may take the place of butter, is simply to deceive the purchaser.

One sample (No. 66025) consists of pop-corn, sweetened with maple, and possibly with other sugar. The amount of sugar present is too small to permit of certain identification.

Two samples sold as maple-buds, and one sample sold as rose-buds, are essentially chocolate, containing some maple sugar as a flavour. The word “buds” is probably used in reference to the shape of the confection.

Other samples are sold under various fancy names, as maple wafers; maple fudge; maple taffy; maple pudding; and others as compounds in the name of which the components are indicated, as maple fruit fudge; chocolate maple walnuts, etc.

None of these samples are offered as straight maple sugar or maple syrup; and in consequence of this fact, they do not come under regulations governing maple products which were in force at the time of the collection. It is quite apparent that in most of them, maple sugar is present merely for the purpose of giving a flavour to the article, just as lemon or vanilla might be present. It is, I think, open to question, whether the amendment of 15th. April last was intended to prohibit the employment of maple sugar as a flavouring material. Manufacturers have assured me that they have been extremely careful to purchase genuine maple sugar in order that they might thus secure a genuine maple flavour for their products. If they are forbidden to use the word *maple* in naming these products, it is difficult to see how they can find a market for them. In such cases, a statement that the goods are flavoured with maple sugar, is a simple statement of fact, and would not appear to violate the fundamental principle of the Act.

For reasons already given I have not judged any of these samples as adulterated; but in cases where cane sugar is present, I have made mention of the fact.

I beg to recommend publication of this report as Bulletin No. 323.

I have the honour to be Sir,

Your obedient servant,

A. McGILL,
Chief Analyst

7 GEORGE V, A. 1917
BULLETIN No. 322—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1915.							
May 19	Maple wafers.	54021	Woolworth's, Ltd., Halifax.	1 lb..	15	Montreal Biscuit Co., Montreal.	Manufacturer ..
" 20	Maple cream..	54022	H. H. Marshall, Halifax..	1 " ..	30	Albert Smith, Elgin, N.B.	" ..
" 21	Maple butter.	54023	A. & W. Smith & Co., Halifax.	3 tins.	63	Maple's, Ltd., Toronto.	" ..
" 25	Maple wafers.	54024	Mo.r's, Ltd., Halifax....	1 lb .	15	Vendors.....	.....
DISTRICT OF NOVA SCOTIA—							
June 3	Maple butter..	65832	James Cavanagh, New Glasgow.	3 tins.	60	Maple's, Ltd., Toronto.	R. McGregor & Son, New Glasgow.
" 3	Cremo maple butter.	65833	D. J. Murray, New Glasgow.	3 "	45	Can. Maple Exchange.	.....
DISTRICT OF CAPE BRETON—							
May 6	Maple butter..	63811	Walter's Confectionery, Sydney.	3 jars.	45	Maple's, Ltd., Toronto.	.....
DISTRICT OF PRINCE EDWARD ISLAND—							
May 7	Maple butter..	60302	J. C. Crabbe, Charlottetown.	3 tins.	45	.....	Carvell Bros., Charlottetown
DISTRICT OF NEW BRUNSWICK—							
May 13	Maple butter..	66031	W. A. Simonds, St. John.	3 tins.	60	Maple's, Ltd., Toronto.	.....
June 22	Chocolate maple walnuts.	66032	The Corona Co., Ltd., St. John.	$\frac{1}{2}$ lb .	20	Vendors.....	.....
" 22	Maple fritters.	66033	T. J. Phillips, St. John..	3 pkgs.	15	Vendor....	.....
" 22	Maple fudge..	66034	" " ..	3 " "	15	" .....	.....
" 23	Maple walnuts	66035	M. E. Glass, St. John ..	3 " "	45	Ganong Bros., Ltd., St. Stephen.	.....
May 19	Maple cre-mo.	66036	J. I. Davis & Son, St. John.	3 tins.	45	Can. Maple Exchange.	.....
June 16	Maple cream, chocolate bars	66037	H. H. Keirshead, Sussex	3 bars	30	Robertson Bros., Toronto.	.....
" 21	Maple crispettes.	66038	W. A. Simonds, St. John.	3 rolls	15	Maple Crispette Co., Montreal	.....
" 22	Maple cream chocolate.	66039	The Corona Co., Ltd., St. John.	3 pkgs	11	Vendors.....	.....
" 22	Maple cream taffy.	66040	White's Dairy, St. John..	3 " "	11	The Corona Co., Ltd., St. John.

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MAPLE CONFECTIONS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Results on dry basis.		Found.		
			Lead number (Canadian)	Total Ash.			
R. J. WAUGH, INSPECTOR.							
Vendor stated that he would not guaran- tee these goods all maple.	p. c. 5.06	p. c. . . .	0.52	0.77	. . . . .	54021	Cane sugar present.
.	7.81	. . . . .	1.59	0.63	. . . . .	54022	" "
.	12.80	87.20	2.64	. . . .	. . . . .	54023	Meets legal require- ments.
.	7.08	. . . . .	0.26	0.30	. . . . .	54024	Cane sugar present.
W. A. PETIPAS, TEMP. INSPECTOR.							
.	10.48	89.52	5.04	. . . .	. . . . .	65832	Meets legal require- ments.
.	6.80	93.20	1.93	. . . .	. . . . .	65833	" "
E. T. McKEEN, INSPECTOR.							
.	6.40	93.60	3.41	. . . .	. . . . .	63811	Meets legal require- ments.
WM. A. WEEKS, INSPECTOR.							
.	5.80	94.20	1.23	0.23	. . . . .	60302	Cane sugar present.
JOHN C. FERGUSON, INSPECTOR.							
Old Stock,	12.08	87.92	2.52	. . . .	. . . . .	66031	Meets legal require- ments.
.	15.12	84.88	2.18	. . . .	Mixture of chocolate and maple sugar.	66032	" "
.	8.40	91.60	0.08	0.53	. . . . .	66033	Cane sugar present.
.	10.36	89.64	0.90	0.51	. . . . .	66034	" "
.	8.00	92.00	0.68	0.20	Mixture of nuts and sugar	66035	" "
.	14.40	85.60	1.84	0.90	. . . . .	66036	Meets legal require- ments.
.	15.92	84.08	4.80	. . . .	Mixture of chocolate and maple sugar.	66037	" "
. . . . .	. . . .	. . . .	. . . .	. . . .	Popcorn	66038	Not analysed.
.	43.24	86.76	3.74	Mixture of chocolate and maple sugar.	66039	Meets legal require- ments.
.	5.66	94.44	0.24	0.42	66040	Cane sugar present.

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BULLETIN No. 322—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1915.							
May 13	Maple cheese.	66041	W. A. Simond, St. John.	3 tins.	30	Maples, Ltd., Toronto.	.....
June 16	Maple walnuts.	66042	H. H. Keirstead, Sussex.	$\frac{3}{4}$ lb.	45	Robertson Bros., Ltd., Toronto.	.....
" 16	Maple buds chocolates.	66043	" "	$\frac{3}{4}$ " "	60	.....	Ganong Bros., St. Stephen.
" 21	Maple buds...	66044	W. A. Simonds, St. John.	3 pkg	30	The Cowan Co., Ltd., Toronto.	.....
" 22	Maple chocolate fudge.	66045	White's Dairy, St. John.	3 "	15	The Corona Co., Ltd., St. John.	.....
" 23	Rosebuds....	66091	Wm. Hawker & Son, St. John.	3 "	45	Wm. Neilson, Toronto.	.....
" 23	Maple chocolate walnuts.	66092	W. H. Sharpe, St. John.	3 "	30	Ganong Bros., Ltd., St. Stephen.	.....

DISTRICT OF QUEBEC CITY—

April 20	Maple butter.	56360	Myrant & Pouliot, Quebec.	3 tins.	60	Maples, Ltd., Toronto.	J. B. Renaud & Cie.
" 22	" "	56520	Arthur Drolet, 714 St. Valier, Quebec.	3 "	60	Langlais & Paradis.	Mfrs.
" 22	Maple cheese.	56521	" "	3 "	30	" " "	"

DISTRICT OF QUEBEC PROVINCE—

April 23	Maple butter.	2753	Ed. Dancausse, Montmagny.	3 lb.	90	Maples, Ltd., Toronto.	.....
" 23	" "	2755	A. N. Normand, Montmagny.	3 " "	75	" " "	.....
May 22	Maple pudding.	56453	Pierre Bernbe, Fraserville.	3 " "	35	Perrin's Candy, Canada.	.....

DISTRICT OF MONTREAL—

April 30	Maple butter.	67301	Martin & Fils, 1718 Mason St., Rosemount.	3 tins.	60	Maples, Ltd., Toronto.	.....
" 30	Maple cream.	67302	W. Hawthorn, 1155 Mt. Royal Ave. E., Montreal.	3 "	36	V. B. Syrup Exchange.	.....
May 19	Maple butter.	67303	The Royal George Grocery, 221 Bernard Ave., Montreal.	3 "	45	Canada Maple Exchange.

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MAPLE CONFECTIONS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Found.	No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Solids.	Results on dry basis.				
			Lead Num- ber (Can- adian).	Total Ash.			

Concluded.

	p. c.	p. c.		p. c.			
.....	5.80	94.20	1.59	0.53	.....	66041	Cane sugar present.
.....	7.04	92.96	0.15	0.28	Mixture of Nuts and Sugar.	66042	" "
Cowan's					Chocolate.....	66043	Not analyzed as maple.
.....					"	66044	" "
.....	8.00	92.00	1.15	0.60	Mixture of Chocolate and Sugar.	66045	Cane sugar present.
Neilson's vendor stated that sample was similar to Cowan's Maple Buds.					Chocolate.....	66091	Not analyzed as maple.
.....	1.04	98.96	1.66	0.22	Mixture of Chocolate and Sugar.	66092	Cane sugar present.

F. X. W. E. BELAND, INSPECTOR.

.....	10.96	89.04	2.22	.....	.....	56368	Meets legal require- ments.
.....	14.84	85.16	1.40	0.44	.....	56529	Cane sugar present.
.....	6.76	93.24	2.36	.....	.....	56521	Meets legal require- ments.

T. GENDREAU AND A. PELLETTIER, TEMPORARY INSPECTORS.

.....	15.60	84.40	1.16	0.37	.....	2753	Cane sugar present.
.....	12.32	87.68	3.73	.....	.....	2755	Meets legal require- ments.
.....	13.72	86.28	1.83	0.62	Mixture of Nuts and Maple Sugar.	56483	

D. J. KEARNEY, INSPECTOR.

.....	10.96	89.04	1.79	0.46	67301	Doubtful.
.....	11.48	88.52	0.19	0.47	67302	Cane sugar present.
.....	12.96	87.04	1.11	0.60	67303	

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BULLETIN No 322—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1915.							
April 22	Maple butter.	57931	Graham & Hunter, St. Lambert.	3 tins.	75	Maples, Ltd., Toronto.	.....
" 22	" ..	57932	W. R. Simpson, St. Johns.	3 "	45	Canada Maple Exchange.	.....

DISTRICT OF OTTAWA—

April 20	Maple butter.	63608	J. T. Conway, Perth.	3 tins.	45	Can. Maple Exchange, Montreal.	.....
" 17	" .	63621	A. M. Parkinson, Kemptville.	3 "	60	Maples, Ltd., Toronto.	.....
" 27	Maple cream.	63627	Michael Vise, Renfrew...	1 cake	10	Unknown	Unknown
" 30	Maple cream butter.	63638	Wall & Co., Ottawa.....	3 tins.	30	Ramsays, Ltd., Montreal.	.....

DISTRICT OF KINGSTON—

April 29	Maple butter.	68052	J. Gilbert Kingston.	3 tins.	30	Maples, Ltd., Toronto
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DISTRICT OF TORONTO—

May 13	Maple cheese.	67074	D. J. Dunsheath, Beaver-ton.	3 cakes	30	Maples, Ltd., Toronto.	Unknown
" 15	Maple cream.	67075	G. Georgas, Midland....	1 lb.	25	Vendor.....	.....
" 27	Maple butter.	67083	Maples, Ltd., Toronto. ...	3 cans.	45	Vendors.....	.....

DISTRICT OF HAMILTON—

April 27	Maple butter	67003	Steele Bros., Palmerston.	3 cans.	60	Maples, Ltd., Toronto.	.....
" 28	Maple Bon Bon.	67004	R. G. Lambert & Sons, Hamilton.	1 lb.	20	.....	Geo. E. Bristol & Co., Hamilton.
May 5	Maple butter.	67011	A. G. Bain & Co., Hamilton.	3 cans.	30	Can Maple Exchange.	.....
"	Maple fruit fudge.	67012	F. W. Woolworth, Ltd., King St. E., Hamilton.	31 1 lb..	20	Quaker Candy Co., Toronto.	.....
" 5	Maple cream.	67013	James Crawford, 34 King St. E., Harriston.	1 " ..	30	Vendor.....	.....
" 6	Maple granulo sugar.	67014	James Osborne & Sons, 12 James St. S., Hamilton.	1 pkg.	25	Can. Maple Exchange, Montreal.

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MAPLE CONFECTIONS.

Inspector's Report. (Is not an Expression of opinion.	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Results on dry basis.		Found.		
			Lead Num- ber (Can- adian.)	Total ash.			

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.	p. c.		p. c.		
.....	14.08	85.92	1.28	0.37	.....	57931 Cane sugar present.
.....	14.68	85.92	1.09	0.63	.....	57932 " "

J. A. RICKEY, INSPECTOR.

Cremo, Small's the genuine Cremo maple butter.	15.00	85.00	1.88	0.88	.....	63608 Meets legal require- ments.
Lion Brand made from pure maple sugar and fresh rich cream.	11.80	88.20	2.54	.....	.....	63621 " "
.....	3.17	.....	2.11	0.62	.....	63627 " "
.....	12.00	88.00	0.50	0.25	63638 Cane sugar present.

JAMES HOGAN, INSPECTOR.

.....	13.92	86.08	5.30	68052 Meets legal require- ments.
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H. J. DAGER, INSPECTOR.

.....	2.92	97.08	2.10	67074 Meets legal require- ments.
.....	7.56	92.44	0.43	0.22	67075 Cane sugar present.
.....	10.56	89.44	2.93	.....	.....	67083 Meets legal require- ments.

H. J. DAGER, ACTING INSPECTOR.

Lion Brand	10.40	89.60	1.90	.....	.....	67009 Meets legal require- ments.
.....	4.67	.....	0.28	0.25	.....	67004 Cane sugar present.
Cremo Brand.	4.80	95.20	1.45	0.31	.....	67011 " "
.....	10.60	89.40	2.10	Mixture of fruit and maple sugar	67012 Meets legal require- ments.
.....	2.16	97.84	4.00	67013 " "
.....	0.08	99.92	0.61	0.24	67014 Cane sugar present.

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BULLETIN No. 322—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1915.							
April 26	Maple butter.	61321	J. Jost, Sargent Ave., Winnipeg.	1 lb.	75	Maples, Ltd., To- ronto	.....
" 26	Maple cheese.	61322	" " "	3 pkgs	30	" " "	.....

DISTRICT OF SASKATCHEWAN—

April 27	Maple butter.	66359	Conlin Bros., Swift Cur- rent.	3 cans	75	Maples, Ltd., Toronto.	Swift Current Grocery.
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DISTRICT OF ALBERTA—

April 30	Maple butter.	52151	Johnstone Walker, Ltd., Edmonton.	3 tins.	75	Maples, Ltd., Toronto.
May 21	Maple cheese.	52152	Pryce Jones (Can.) Ltd., Calgary.	3 c'kes	30	" "	.....

DISTRICT OF ROCKY MOUNTAINS—

May 20	Maple butter.	61813	Ira R. Manning, Ltd., Cranbrook.		100	Maples, Ltd., Toronto.
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DISTRICT OF VANCOUVER—

May 3	Maple butter.	55244	T. W. Turner, 890 Pender St. W., Vancouver.	3 tins.	75	Maples, Ltd., Toronto.
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DISTRICT OF VICTORIA—

May 31	Maple butter.	66717	West End Grocery, Ltd., 1002 Govt. St., Victoria.	3 tins.	75	Maples, Ltd., Toronto.
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SESSIONAL PAPER No. 14

MAPLE CONFECTIONS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Results on dry basis.					
	Water.	Solids.	Lead Num- ber (Can- adian).	Total Ash.			Found.

A. C. LARIVIERE, INSPECTOR.

	p. c.	p. c.		p. c.			
.....	11.76	88.24	1.33	0.35	.....	61321	Cane sugar present.
.....	6.92	93.08	1.49	0.44	.....	61322	" "

L. H. HALL, INSPECTOR.

.....	11.72	88.28	1.81	0.44	.....	66359	Doubtful.

A. W. R. MARKLEY, INSPECTOR.

.....	9.92	91.08	1.37	0.37	.....	52151	Cane sugar present.
.....	3.48	96.52	0.90	0.34	.....	52152	" "

THOS. PARKER, INSPECTOR.

.....	11.28	88.72	2.57	.....	.....	61813	Meets legal require- ments.

E. J. MORGAN, INSPECTOR.

Lion Brand	9.50	90.50	6.31	.....	.....	55244	Meets legal require- ments.

D. O'SULLIVAN, INSPECTOR.

Lion Brand	16.32	83.68	2.90	.....	.....	66717	Meets legal require- ments.

APPENDIX N.

BULLETIN No. 323—SALPETRE.

OTTAWA, October 13, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report upon one hundred and sixty-six (166) samples, purchased by our inspectors in April, May and June of this year, as *Saltpetre*.

This term applies to the potassium salt of nitric acid, otherwise known as *Nitre*, or nitrate of potash. As a food material it is chiefly used in pickling meats. In the arts, it is largely employed for manufacture of gunpowder and other explosives; and for this reason, as well as because the Stassfurt mines of Germany have been in recent years, our chief source of potash, considerable difficulty in securing supplies of salt-petre exists.

In consequence of the above facts the sodium salt of nitric acid, commercially known as Chili Saltpetre, is made to supply the place of true saltpetre, wherever such replacement is possible. The hygroscopic character of the sodium salt (Chili Saltpetre) makes it less available for most uses in the arts; but for the purposes of a pickle Chili Saltpetre may be regarded as satisfactory, when properly refined. The physiological properties of the nitrates of potash and soda are, as far as known, practically identical.

An official announcement was made in September, 1914, by the Secretary of Agriculture at Washington, to the following effect:

"This order permits the immediate use of nitrate of soda (Chili Saltpetre) in the preparations of meat and food products in establishments where Federal meat inspection is maintained."

While no ground exists for objecting to the substitution of sodium nitrate for potassium nitrate, so far as the manufacture of pickle is concerned, it remains that the cheaper article (Sodium nitrate) should be offered for sale under its own proper name, and should not be sold as Saltpetre or nitre. Complaints have been received by the Department charging that many dealers supply the sodium salt under the name of the potassium salt (saltpetre) and are thus able to compete unfairly in the market as against those dealers who properly describe the article.

The present report appears to justify the complaint made; and the results of inspection may be summarized as follows:—

Found genuine as Saltpetre.. . . .	109 samples.
Found to be Chili Saltpetre.. . . .	49 "
Found to be mixtures of both.. . . .	7 "
Found to be sulphate of soda.. . . .	1 "
Total.. . . .	166 "

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Sample No. 56451 found to be sulphate of soda (Glauber's Salt) is evidently a mistake on the part of the vendor.

I would respectfully advise publication of this report as Bulletin No. 323. It will serve the purpose of a warning to dealers, and furnish information to the public.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 323—SALTPETRE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturers or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Results of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1915.	June 18	Saltpetre ...	54041	Nat. Drug & Chem. Co., 1 lb.	25	Unknown	.....	.....	Potassium Nitrate.....	54041	Genuine.
"	23	"	54042	Brown Bros. & Co., 1 "	25	"	N. D. & Chem. Co., Halifax.	.....	"	54042	"
"	23	"	54043	Estate of J. R. Rowley, 1 "	25	"	"	.....	"	54043	"
"	28	"	54044	Kimleys, Ltd., Halifax 1 "	25	"	"	.....	"	54044	"
"	28	"	54045	Buckley Bros., Halifax 1 "	20	"	"	.....	"	54045	"

DISTRICT OF PRINCE EDWARD ISLAND—WM. WEEKS, INSPECTOR.

May	7	Saltpetre ...	60185	E. A. Foster, Charlottetown.	25	Lymans Ltd., Montreal.	.....	.....	Potassium Nitrate.....	60185	Genuine.
"	7	"	60186	C. D. Rankin, Charlottetown.	20	N. D. & C. Co., Halifax.	"	60186	"
"	10	"	60187	George E. Hughes, Charlottetown.	25	Lymans Ltd., Montreal.	"	60187	"

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DISTRICT OF NEW BRUNSWICK—JOHN C. FERGUSON, INSPECTOR.

May	Saltpetre	66076 Nat. Drug & Chem. Co., St. John.	25	N. D. & C. Co. Montreal.	Potassium Nitrate....	66076 Genuine.
- 12	-	66077 Canadian Drug Co., St. J. John.	25	Unknown	.....	.....	"	66077 "
- 17	(reversed)	66078 Baled & Peters, St. John	25		N. D. & C. Co., St. John.	.....	Sodium Nitrate.....	66078 Is Chili Saltpetre.
- 18	Saltpetre	66079 Puckington, Westmore & Co., St. John.	20		"	.....	Potassium Nitrate....	66079 Genuine.
- 25	-	66080 W. H. Vanwart, Fred. ericson.	25		G. W. Hodge, Fredericton.	.....	Sodium Nitrate....	66080 Is Chili Saltpetre.
- 26	-	66081 Stevens Bros., Wood, stock, N. B.	25		Can. Drug Co., St. John.	.....	Potassium Nitrate....	66081 Genuine.
- 27	-	66082 Wads Drug Co., Perth, N. B.	25		N. D. & C. Co., St. John.	.....	Sodium Nitrate....	66082 Is Chili Saltpetre.
June 8	-	66083 S. B. Hunter, Harvey Station.	15		Can. Drug Co., St. John.	.....	Potassium Nitrate 84 About 15% Sodium Nitrate.	66083 Mixed nitrates of potash and soda.
- 9	-	66084 J. D. Grimmer, St. An- drews.	25	Unknown	Unknown	.....	Potassium Nitrate....	66084 Genuine.
- 16	-	66085 S. B. Mercantile Co., St. John.	15		H. W. Cole, St. John.	.....	"	66085 "

DISTRICT OF QUEBEC CITY—F. X. W. E. BELAND, INSPECTOR.

April 27	66086 J. Gagne, 744 Vallee, Quebec.	12	Dr. Ed. Morin, Que.	Mfrs	.....	Potassium Nitrate....	66086 Genuine.
" 2	66087 J. Gagne, 744 Vallee, Quebec.	20	Nat. Drug Co.	Nat. Drug, Mon- treal.	.....	"	66087 "
" 27	66088 J. B. Gagne, 387 St. Louis, Quebec.	25	Burroughs Well- come Co.	Lymanus, Ltd., Montreal.	.....	"	66088 "
" 28	66089 W. F. P. Currie, St. Joseph, Quebec.	30	W. F. P. Currie, Montreal.	Mfr.....	.....	"	66089 "
" 30	66090 L. E. Morin, 31 Rue St. Joseph, Quebec.	30	"	"	.....	"	66090 "
" 27	66091 J. Gagne, 744 Vallee, Quebec.	25	Dr. Ed. Morin, Que.	"	.....	"	66091 "
" 28	66092 L. E. Morin, 31 Rue St. Joseph, Quebec.	30	"	"	.....	"	66092 "
" 30	66093 A. E. Piquet, 379 St. Louis, Quebec.	29	"	"	.....	"	66093 "
" 30	66094 A. L. Talbot, 258 St. Louis, Quebec.	25	J. E. Laverne, Lymanus, Ltd.	"	.....	Sodium Nitrate....	66094 Is Chili Saltpetre.
" 30	66095 F. X. W. E. Beland, St. John, Quebec.	35	Lymanus, Ltd.	Mfr	.....	Potassium Nitrate 84 About 15% Sodium Nitrate.	66095 Genuine.

BULLETIN No. 323—SALTPETRE.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF QUEBEC CITY—F. X. W. E. BELAND, INSPECTOR.

1915.										
April 29	Saltpetre ...	56527 J. E. Turcotte, 117 St. Jean, Quebec.	1 lb.	20	Nat. Drug....	Mfr.....	.....	Potassium Nitrate....	56527	Genuine.
" 29	" ...	56528 J. E. Livernois, Quebec.	1 "	18	Unknown ...	Unknown...	.....	"	56528	"
" 29	" ...	56529 B. B. Roger, 44 Fabrique, Quebec.	1 "	30	Lynnaus, Ltd...	Mfrs.....	.....	"	56529	"
" 29	" ...	56530 Laroche & Cie, 4 Fabrique, Quebec.	1 "	50	E. B. Squibb, New York.	"	.....	"	56530	"

DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU, T. GENDREAU, N. CADREUX AND A. PELLETIER, TEMPORARY INSPECTORS.

May 1	Saltpetre ...	3838 S. Martel, Quebec Mar-1 ché.	1 lb.	15	.....	.....	.....	Sodium Nitrate....	3838	La Chili Saltpetre.
" 15	" ...	3855 Lacasse & Audet, St. Ed-2 ward, Francon.	"	20	.....	.....	.....	"	3855	"
" 27	" ...	3858 A. Cloutier, Ste Odilon, 2	"	30	.....	.....	.....	"	3858	"
" 19	" ...	3861 Anselme Fortier, Ste. 2 Rose.	"	25	.....	.....	.....	Sodium Nitrate, con- tains organic matter.	3861	"
" 20	" ...	3862 C. D. chene, Ste. Ger-2	"	20	Sodium Nitrate....	3862	"
" 26	" ...	3864 Dorchester Lumber, Ste. 2 Maine-Machine.	"	23	"	3864	"

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June 4	Saltpetre	3866 Jos. Turgeon, St. Na- zare.	20	J. B. Morin	Dr. Ed. Morin, Quebec.	"	3866	"
"	"	3867 P. Genest, St. Bernard	30	"	N. Brunette & Cie, Quebec.	.....	"	.....	3867	"
"	"	3868 Nap. Dumas, St. Come, Beauce.	30	"	"	.....	"	.....	3868	"
"	"	3871 Jos. Cloutier, St. Ephrem.	30	"	"	.....	"	.....	3871	"
May 7	"	3862 Alphonse Audet, St. La zare.	12	J. B. Morin	Dr. Ed. Morin, Quebec.	.....	"	.....	3863	"
April 28	"	2756 A. E. Michers, Mont magny.	24	"	"	Potassium Nitrate	Potassium Nitrate	.....	2756	Gemine,
"	"	2764 C. Corriveau, Montma- gny.	12	"	"	Sodium Nitrate	Sodium Nitrate	.....	2764	Is Chili Saltpetre.
"	"	274 Eng. Fournier, St. Je rome.	25	"	Nat. Drug, Mon- treal.	Potassium Nitrate	Potassium Nitrate	.....	274	Gemine.
May 4	"	284 A. St. Amour, Ste. Agn- the des Monts.	30	"	"	"	"	.....	284	"
"	"	286 H. C. Ed. Grignon, St Agathe des Monts.	25	"	"	"	"	.....	286	"
"	"	2643 L. F. Lepage, Rimouski.	50	Unknown	"	Sodium Sulphate	Sodium Sulphate	.....	2643	Evidently supplied by mistake.
"	"	2645 Fraserville Drug Co., Fraserville.	50	"	Lynam, Ltd., Montreal.	Potassium Nitrate	Potassium Nitrate	.....	2645	Gemine.
"	"	2642 Ed. Goutier, Fraser ville.	40	Unknown	"	Sodium Nitrate	Sodium Nitrate	.....	2642	Is Chili Saltpetre.
June 1	"	2646 Jean Kaine, Fraserville	35	Lynam, Mon- treal.	"	Potassium Nitrate	Potassium Nitrate	.....	2646	Mixed sodium and potassium ni- trates.

DISTRICT OF THREE RIVERS DR. V. P. LAVALLEE, INSPECTOR.

Map	Latitude	Longitude	Locality	Altitude	Collector	Year	Notes
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	Lyman K. Cox, Montreal	1895	Potassium Nitrate
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	"	1895	"
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	Laforte & Martin, Montreal	1895	Potassium Nitrate
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	"	1895	"
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	"	1895	"
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	Jos. Duffe & Co., Joliet, Ill.	1895	Sodium Nitrate
	25° 00' N	100° 00' W	San Juan, Chihuahua	1000	"	1895	"

BULLETIN No. 323—SALTPETRE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher As given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLEE, INSPECTOR.—*Concluded.*

1915.											
May 13	Saltpetre ..	68000	William Perrault, Bert- hierville,	1 ..	10	.....	Jos. Dufresne, Joliette.	.....	Sodium Nitrate	68000	Is Chili Saltpetre.
" 25	" ..	69102	Louis Provost, L'Epi- phanie,	1 ..	08	.....	Chevalier Pou- liot, Montreal.	.....	" .....	69102	" ..

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Apr. 26	Saltpetre....	67331	Dr. Millier, 1800 Masson St., Rosemont.	1 lb..	25	.....	Unknown .....	.....	Potassium Nitrate....	67331	Genuine
" 26	" ..	67332	G. St. Jacques, 1161 Mt. Royal Ave., Montreal.	1 " ..	10	.....	" .....	.....	" .....	67332	" ..
" 26	" ..	67333	J. E. Morin, 927 Mount Royal Ave., Montreal.	1 " ..	25	.....	National Drug Company.	.....	" .....	67333	" ..
" 26	" ..	67334	D. & A. Dufresne, 781 Mount Royal Ave., Montreal.	1 " ..	30	.....	Lyman Ltd....	.....	" .....	67334	" ..
" 26	" ..	67335	N. Gironx, 798 Mount Royal Ave., Montreal.	1 " ..	25	.....	" .....	.....	" .....	67335	" ..
" 26	" ..	67336	A. Lalonde, 586 Mount Royal Ave., Montreal.	1 " ..	35	.....	" .....	.....	" .....	67336	" ..
" 27	" ..	67337	Outremont Pharmacy, 1195 Bernard Street, Outremont.	1 " ..	15	.....	" .....	.....	" .....	67337	" ..
" 27	" ..	67338	Van Horne Drug Store, 1901 Van Horne Ave., Montreal.	1 " ..	20	Unknown	"	67338	" ..

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67339	Gies, A. Langlois, 187 1/2 Bernard Ave., Montreal.	40	Lyman Ltd.	67339
67340	P. R. Thomas, 384 Bleury St., Montreal.	15	McEwen, Cameron & Wait.	67340
67341	M. Cormacks, 127 Prince Arthur St., Montreal.	20	Nat. Drug Co.	67341
67342	A. P. Fortin, 1500 Park Ave., Montreal.	10	Unknown	67342
67343	H. R. Hunt, 290 Laurier ave. w., Montreal.	45	Lyman's, Ltd.	67343
67344	Martineau Drug Store, 1008 St. Denis st., Montreal.	15	Unknown	67344
67345	H. Robert, 1185 St. Denis st., Montreal.	15	"	67345

DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

May	Saltpetre	28171	E. C. Fraser, Sherbrooke	1 lb	25	Lyman's, Ltd.	Potassium nitrate	58171	Genuine
"	"	58172	F. T. Ansell,	"	20	"	"	58172	"
"	"	58173	G. Richard,	"	35	"	"	58173	"
"	"	58174	F. D. Hewitt,	"	25	N. D. & C. Co.	"	58174	"
"	"	58175	A. E. DeBerger,	"	25	Lyman's, Ltd.	"	58175	"
"	"	57951	Pharmacia Vigor, Hyacinthe.	St. 1	20	"	"	57951	"

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

April	Saltpetre	63637	Jos. Green, Ottawa.	1 lb	15	W. & F. P. Currie & Co., 346 St. James st., Montreal.	Sodium nitrate	63637	La Chili Saltpetre
May	"	63648	P. D'Aunt & Co, Hull.	"	8	"	"	63648	"
"	"	63652	The F. J. Castle Co., Ottawa.	"	8	Unknown	"	63652	"

BULLETIN NO. 323—SALTPETRE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Quantity.		Cents.		Manufacturer.	Furnisher.				

DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

1915.												
April 28	Saltpetre...	68031	C. S. Prouse, Kingston...	1 lb.	20			N. C. Polson & Co., Kingston, Ont.		Sodium Nitrate.....	68031	Is Chili Saltpetre.
" 28	"	68032	T. H. Sargent, Kingston.	1 "	20			Nat. Drug Co., Toronto.		Potassium Nitrate.....	68032	Genuine.
May 4	"	68033	Green's, Belleville.....	1 "	30			Drug Trading Co., Toronto.		"	68033	"
" 4	"	68034	F. C. Clarke, Belleville.	1 "	20			"		"	68034	"
" 4	"	68035	W. H. Latimer.....	1 "	20			J. Sloane & Co., Belleville.		Sodium Nitrate.....	68035	Is Chili Saltpetre.
" 4	"	68036	The Belleville Pharmacy, Belleville.	1 "	20			Lyman's, Ltd., Toronto.		Potassium Nitrate.....	68036	Genuine.
" 4	"	68037	H. T. Paton, Cobourg...	1 "	30			"		"	68037	"
" 5	"	68038	W. J. B. Davison, Port Hope.	1 "	25			Drug Trading Co., Toronto.		"	68038	"
" 5	"	68039	F. C. Weber, Peterboro.	1 "	20			E. G. West & Co., Toronto.		"	68039	"
" 5	"	68040	M'Dermid & Jury, Peter...	1 "	15			Drug Trading Co., Toronto.		"	68040	"

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DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

May 25	Saltpetre.	6705	John Sloane & Co., 280 Church Ave., Toronto.	10	Unknown.	Sodium Nitrate.	67078	Is Chili Saltpetre.
26	"	67079	The Drug Trading Co., 61 st Ontario St., Toronto.	17	Dillons, Ltd., Montreal.	Potassium Nitrate.	67079	Genuine.
28	"	67080	E. G. West & Co., 801 George St., Toronto.	20	"	"	67080	"
28	"	67081	Lyman Bros., Ltd., 711 Front St., Toronto.	20	"	Sodium Nitrate. Is labelled Sodium Nitrate.	67081	Is Chili Saltpetre.
28	"	67082	Perkins Ince & Co., 411 Front St., Toronto.	10	"	Sodium Nitrate.	67082	"
27	"	67083	The Nat. Drug & Chem. Co., 240 Richmond St., Toronto.	25	"	Potassium Nitrate.	67083	Genuine.

DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

April 28	Saltpetre.	66988	Jackson & Son, Guelph.	20	Balfour, Smye & Co., Hamilton.	Potassium Nitrate.	66989	Genuine.
28	"	67002	The Simpson Co., Guelph.	8	A. P. Tippett, Montreal.	Sodium Nitrate.	67002	Is Chili Saltpetre.
28	"	67003	McLaughlin & Sons Co., Owen Sound.	8	Winn & Holland, Montreal.	"	67003	"
30	"	67004	T. Harris & Co., Owen Sound.	7	A. P. Tippett, Montreal.	"	67006	"
May 2	"	67007	James E. Bristol & Co., 731 McNab St. N., Hamilton.	8	Winn & Holland, Montreal.	"	67007	"
3	"	67008	W. H. Gillard & Co., Hamilton.	10	"	Potassium Nitrate.	67009	Genuine.
3	"	67010	Macpherson Glasses Co., Hamilton.	8	"	Sodium	67010	Is Chili Saltpetre.
4	"	67012	Nat. Drug and Chem. Co., Hamilton.	15	"	Potassium	67016	Genuine.
4	"	67017	Lamnden Bros., Hamilton.	10	"	Sodium	67017	Is Chili Saltpetre.

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BULLETIN No. 323—SALTPETRE.

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				Quantity.	Cents.	Manufacturer.	Furnisher.				
DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.											
1915.											
May 3	Saltpetre...	54604	H. Robertson, Sarnia...	1 lb.	30		Lyman Bros., Toronto.		Potassium Nitrate....	54604	Genuine.
" 3	"	54605	Clement Drug Store, Sarnia.	1 "	20		Drug Trading Co., Toronto.		"	54605	"
" 3	"	54606	Geo. Ingersoll, Sarnia...	1 "	25		"		"	54606	"
" 4	"	54614	P. T. McKibbin, Sarnia.	1 "	20		E. G. West & Co., Toronto.		"	54614	"
" 4	"	54615	J. B. Dale, Petrolia.	1 "	25		Drug Trading Co., Toronto.		"	54615	"
" 6	"	54620	W. O. Foster, St. Thomas.	1 "	15		Nat. Drug Co., St. Thomas.		"	54620	"
" 6	"	54621	Geo. H. Small, St. Thomas.	1 "	20		"		"	54621	"
" 6	"	54622	F. W. Judd, St. Thomas.	1 "	25		"		"	54622	"
" 6	"	54623	R. E. Crane & Co., St. Thomas.	1 "	25		"		"	54623	"
" 6	"	54624	F. A. Lenan & Co., St. Thomas.	1 "	15		Drug Trading Co., Toronto.		"	54624	"
DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.											
May 14	Saltpetre ..	61272	Geo. McLean Co., Ltd., Winnipeg.	1 lb.	10				Sodium Nitrate....	61272	Is Chili Saltpetre.
" 14	" ..	61273	Richards & Brown, Winnipeg.	"	Nil.				"	61273	"

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April	14	61274	The A. McDonald Co., Winnipeg.	10	61274	"
"	14	61275	Campbell Bros. & Wil- son, Winnipeg.	"	Nil	61275	"
"	14	61276	The Godville Co., Winni- peg.	"	"	.....	.....	61276	"
"	18	61277	The Minnesota Phar- macy, Minneapolis.	25	Nat. Drug & C. Co., Winnipeg.	.....	.....	61277	Mixed nitrates, pot- ash and soda.
"	18	61278	R. T. Macclart, Minne- sota.	20	.....	.....	.....	61278	"
"	18	61279	H. M. Capeniff, Portage la Prairie.	25	.....	.....	.....	61279	Is Chili Saltpetre.
"	18	61280	Portage Pharmacy, Por- tage la Prairie.	25	.....	.....	.....	61280	Mixed nitrates, pot- ash and soda.
"	18	61281	J. K. Hall, Portage la Prairie.	25	.....	.....	.....	61281	"

DISTRICT OF SASKATCHEWAN—L. H. HALL, INSPECTOR.

April	26	66351	T. W. Hutchison, Swift Current.	35	.....	.....	.....	66351	Genuine.
"	27	66352	J. G. Laycock, Swift Current.	25	.....	.....	.....	66352	"
May	1	66353	F. W. Marlatt, Moose Jaw.	25	.....	.....	.....	66353	"
"	1	66354	E. L. Cudgog, Moose Jaw.	25	.....	.....	.....	66354	"
"	1	66355	H. A. Davidson, Moose Jaw.	20	.....	.....	.....	66355	"
"	2	66356	Cudgog Co., Moose Jaw.	10	.....	.....	.....	66356	Is Chili Saltpetre.
"	4	66357	Campbell, Wilson & Stratton, Regina.	5	.....	.....	.....	66357	"
"	4	66358	Macclart, Drug & Book Co., Regina.	20	.....	.....	.....	66358	"

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

April	20	52140	H. Graydon, Edmon- ton.	30	.....	.....	.....	52140	Genuine.
"	20	52141	H. Lunn, Edmonton.	25	.....	.....	.....	52141	"
"	20	52142	Macclart, Drug & Book Co., Edmonton.	10	52142	Mixed Nitrates, Potash & Soda.

BULLETIN No. 323—SALTPETRE.

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				Quantity.	Manufacturer.	Furnisher.				

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.—*Concluded.*

1915.											
April 30	Saltpetre	52149	Macdonald Cooper, Ltd., Edmonton.	1 lb.	10		B. & R., New York.		Potassium Nitrate, 0.10 p.c.; 99.90 p.c. Sodium Nitrate.	52149	Is Chili Saltpetre.
May 18	"	52150	Findlay Drug Co., gary.	Cal-1	25		Lyman & Sons, Montreal.		Pot. Nitrate	52150	Genuine.
" 20	"	52154	Wendell McLean, gary.	Cal-1	30		N. D. & C. Co., Calgary.		Pot. Nitrate Trace Sod. Nitrate.	52154	"
" 21	"	52155	Net. Drug & Chem. Co., Calgary.	1 "	20		" "		Pot. Nitrate	52155	"
June 14	"	52156	J. H. Silles, Bassano, Calgary.	1 "	20		" "		"	52156	"
" 15	"	52182	P.W. McNabb, Brooks.	1 "	40		" "		"	52182	"
" 17	"	52184	Frank Hedley Drug Co., Lethbridge.	1 "	35		Martin, Bole & Wynne, Win- nipeg.		"	52184	"

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DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

April 26	Salt-petre	61803 E. W. Hazlewood, Trail 1 lb.	35	N. D. & C. Co., Vancouver.	Potassium Nitrate	61803 Genuine.
May 2	"	61820 Cranbrook Drug & Book Co., Cranbrook.	20	.....	N. D. & C. Co., Montreal.	.....	"	61820 "

DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.

May 25	Salt-petre	55271 Kelly, Douglas & Co., 1 lb.	35	.....	N. D. & C. Co., of Canada.	.....	Potassium Nitrate ..	55271 Genuine.
"	"	55272 W. M. Harrison & Co., 1 "	20	.....	Unknown.	.....	"	55272 "
"	"	55273 J. A. Leipsorten, 1 lb.	25	.....	N. D. & C. Co., of Canada.	.....	"	55273 "
"	"	55274 J. A. Leipsorten, 1 lb.	35	.....	J. A. Leipsorten, Ltd., Vancon- ver.	.....	"	55274 "
"	"	55275 W. H. Malkin Co., Ltd., 1 lb.	35	.....	Unknown.	.....	"	55275 "

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

June 11	Salt-petre	66739 J. A. Fraser & Co., 1 lb.	35	.....	N. D. & C. Co., Victoria.	.....	Potassium Nitrate	66739 Genuine.
"	"	66740 J. A. Fraser & Co., 1 lb.	35	.....	"	.....	"	66740 "
"	"	66741 J. A. Fraser & Co., 1 lb.	2	.....	"	.....	"	66741 "
"	"	66742 J. A. Fraser & Co., 1 lb.	40	.....	E. R. Squibb & Sons New York.	.....	"	66742 "
"	"	66743 J. A. Fraser & Co., 1 lb.	35	.....	N. D. & C. Co., Victoria.	.....	"	66743 "
"	"	66744 J. A. Fraser & Co., 1 lb.	35	.....	"	.....	"	66744 "
"	"	66745 J. A. Fraser & Co., 1 lb.	35	.....	"	.....	"	66745 "
"	"	66746 J. A. Fraser & Co., 1 lb.	35	.....	"	.....	"	66746 "
"	"	66747 J. A. Fraser & Co., 1 lb.	30	.....	J. A. Leipsorten & Co., Vanco.	.....	"	66747 "
"	"	66748 J. A. Fraser & Co., 1 lb.	30	.....	N. D. & C. Co., Victoria.	.....	"	66748 "
"	"	66749 J. A. Fraser & Co., 1 lb.	20	.....	N. D. & C. Co., Vancouver.	.....	"	66749 "
"	"	66750 J. A. Fraser & Co., 1 lb.	25	.....	Leipsorten, Ltd., Montreal.	.....	"	66750 "

APPENDIX O.

BULLETIN No. 324—MAPLE SUGAR.

OTTAWA, October 14, 1915.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon Maple Sugar as obtained by our inspectors in April, May and June of this year.

Standards for Maple Sugar have been in force since November 27, 1911; the Order in Council defining them is published by this department as Circular G. 994.

An amendment to the Adulteration Act was assented to in April of this year, and introduces the following change in the Act, as regards maple products:—

"1. Section 29*a* of the Adulteration Act, chapter 133 of the Revised Statutes, 1906, as enacted by chapter 19 of the statutes of 1914, is repealed and the following is substituted therefor:—

"29*a*. No person shall manufacture for sale, keep for sale, offer or expose for sale, or sell, any article of food resembling or being an imitation of maple sugar or maple syrup, or which is composed partly of maple sugar or maple syrup, and which is not pure maple sugar or pure maple syrup.

"2. Any maple sugar or maple syrup which is not up to the standard prescribed by the sixth schedule to this Act, or, if such standard is changed by the Governor in Council, to such standard as the Governor in Council may from time to time prescribe, shall be deemed to be adulterated within the meaning of this Act.

"3. The word "maple" shall not be used, either alone or in combination with any other word or words, or letter or letters, on the label or other mark illustration or device on a package containing any article of food, or on any article of food itself, which is not pure maple sugar or pure maple syrup, and any article of food labelled or marked in violation of this subsection shall be deemed to be adulterated within the meaning of this Act."

The following synopsis presents the results of analysis of the above mentioned samples:—

	Samples.
Found genuine.	204
" " " " " requirements.	5
" " " " " adulterated.	25
Total.	234

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Five samples so nearly meet legal minimum requirements, that adulteration cannot be established in their regard: but they are not, on this account, above suspicion.

I would respectfully recommend publication of this report as Bulletin No. 324.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

NOTE 1.—Vendor claims to have sold this as a compound maple sugar.

“ 2.—Vendor claims to have sold sample without giving a guarantee of purity.

“ 3.—Vendor claims that the sugar was sold to him as pure by the manufacturer.

“ 4.—Vendor or furnisher states that the article was manufactured by Maples Ltd., Toronto.

“ 5.—Manufacturer claims that the article was sold by him not as maple sugar, but as maple flavoured sugar.

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BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
May 19	Maple Sugar.	54001	Estate of Wm. Patrick, Halifax.	1 lb.	25	Unknown.....	J. F. Harrison, Athol, N.S.
" 19	"	54002	Rooney & Lovett, Halifax	1½ "	30	G. Gilbert, Gilbert's Mountain.	Mfr.....
" 19	"	54003	W. A. Hart, Halifax.....	1 "	20	Unknown.....	E. W. Crease & Son, Halifax.
" 20	"	54004	W. A. Shanks, Halifax..	1½ "	25	D. A. Lavers, Parrsboro, N.S.	Mfr.....
" 20	"	54005	S. Smith & Son, Halifax..	1 "	20	Maples, Ltd., Toronto.	Bauld Bros., Halifax.
" 21	"	54006	Bauld Bros., Ltd., Halifax.	1 "	15	"	Mfr.....
" 21	"	54007	E. W. Crease & Son, Halifax.	1½ "	20	Knox Dodge, Mapleton, N.S.	"
" 26	"	54008	A. Stitchbury, Dartmouth	1½ "	32	Unknown.....	Unknown.....
" 26	"	54009	Coleman & Eisener, Halifax.	1 "	20	"	R. B. Seeton, Halifax.
" 26	"	54010	A. Forsyth, Halifax....	1 "	20	Sugars and Canners, Ltd., Montreal.	C. E. Choate, Halifax.

DISTRICT OF NOVA SCOTIA—

June 4	Maple Sugar.	65854	A. J. Roop, New Glasgow	1 lb.	20	E. E. Dickinson, West Brook, N.S.	Mfr.....
" 4	"	65855	A. A. McDonald, New Glasgow.	1 "	20	"	"
" 4	"	65857	D. J. Murray, New Glasgow.	1 "	20	"	"
" 5	"	65858	C. Grant, New Glasgow..	1 "	15	Unknown	Unknown.....
" 5	"	65859	John D. McIver, New Glasgow.	1 "	20	"	B. D. Rogers, Stellarton, N.S.

DISTRICT OF CAPE BRETON—

May 6	Maple Sugar.	63808	Hennigers, Sydney.....	1 lb.	25	Milford Crowe, Mapleton, N.S.	.....
" 6	"	63810	Walter's Confectionery, Sydney.	1 "	25	Maples, Ltd., Toronto.	.....

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.		
		Total Ash. Lead Number (Canadian.)		

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.			
.....	3.62	0.88	3.53	54001	Genuine.
.....	4.37	0.83	2.73	54002	"
.....	4.23	1.01	3.76	54003	"
.....	5.02	1.18	3.98	54004	"
.....	5.42	0.55	1.67	54005	Adulterated.—Notes 3 & 4.
.....	6.13	0.50	1.36	54006	Notes 3 & 4.
.....	4.55	1.00	3.60	54007	Genuine.
.....	2.42	1.17	4.23	54008	"
.....	5.10	0.49	1.50	54009	Adulterated.—Note 4.
.....	5.94	0.83	3.18	54010	Genuine.

W. A. PETIPAS, TEMPORARY INSPECTOR.

.....	5.03	0.92	3.20	62854	Genuine.
.....	4.58	1.05	3.44	62855	"
.....	2.80	0.93	3.35	62857	"
.....	4.08	1.32	5.11	62858	"
.....	2.94	0.51	1.66	62859	Adulterated.—Note 4.

E. F. McKEEN, TEMPORARY INSPECTOR.

.....	9.58	0.95	2.41	62858	Genuine.
.....	8.36	0.62	1.76	62810	Meets legal requirements.

7 GEORGE V, A. 1917

BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND—

1915.							
May	7	Maple Sugar...	60301 J. C. Crabbe, Charlotte-town.	1 lb..	20	.....	Carvel Bros., Charlotte-town.
"	17	" ..	60303 Jenkins & Sons, Charlotte-town.	1 " ..	20	Canadian Maple Exchange Ltd., Montreal.	.....
"	17	" ..	90304 Stewart & Sons, Charlotte-town.	1 " ..	20	Maple Ltd., Toronto.	.....
"	17	" ..	60305 Beer & Goff, Charlotte-town.	$\frac{3}{4}$ " ..	15	Canadian Maple Exchange Ltd., Montreal.	N. Rattenbury Ltd., Charlotte-town.

DISTRICT OF NEW BRUNSWICK—

May	6	Maple Sugar...	66001 Slocum & Ferris, St. John	2 pkg.	50	Sussex Mercantile Co., Ltd., Elgin.	.....
"	6	" ..	66002 L. S. Peters, St. John...	2 "	48	H. Hawford, Geldart Elgin.	.....
"	8	" ..	66003 Wm. Baxter, St. John...	2 bxs.	40	R. N. Habley, Goshon, N.B.	.....
"	10	" ..	66004 H. E. Williams & Co., Ltd., St. John.	2 "	50	Unknown.....	Unknown.....
"	10	" ..	66005 W. Fenwick, St. John...	2 "	48	.....	Tait Rabkin Co., Elgin, N. B.
"	14	" ..	66006 T. E. Robinson, St. John.	1 lb..	25	Unknown.....	Unknown.....
"	14	" ..	66007 J. W. Phillips, St. John ..	1 "	25	.....	Slocum & Ferris, St. John.
"	14	" ..	66008 McAlacy & Co., St. John.	1 "	25	.....	Wm. Fenwick, St. John.
"	25	" ..	66009 Johnston & Kitchen, Fredericton.	1 "	35	James & Nelson Cliff, Lower Queensbury.	.....
"	25	" ..	66010 W. H. Vanwart, Fredericton.	1 "	30	Sussex Mercantile Co., Elgin.	.....
"	25	" ..	66011 C. H. Burt, Fredericton	1 "	25	W. L. Burt, Sealand Station.	.....
June	9	" ..	96012 H. O'Neill, St. Andrews.	3 bars	30	Sugars & Cannery Ltd., Montreal.	.....
"	15	" ..	66013 Jones & Brown, Norton, King's Co.	3 pkg.	30	Baird & Peters, St. John.	.....
"	15	" ..	66014 E. Harner, Ltd., Norton, King's Co.	1 "	25	.....	R. G. Innes, Petitediac.
"	16	" ..	66015 W. B. McKay Co., Ltd., Sussex.	1 "	25	T. A. Groggin & Sons Elgin.	.....

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Solids.	Results on dry basis.					
			Lead Number (Canadian).	Total Ash.	Water Soluble Ash.	Insoluble Ash.		

WM. A. WEEKS, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.		
.....	6.23	93.77	4.15	1.03	.....	.....	60301	Genuine.
.....	6.89	93.11	3.20	0.83	.....	.....	60303	"
.....	4.90	95.10	3.10	0.82	.....	.....	60304	"
.....	5.90	94.10	3.46	0.92	.....	.....	60305	"

JOHN C. FERGUSON, INSPECTOR

.....	6.60	93.40	2.96	0.75	0.41	0.34	66001	Genuine.
.....	9.60	90.40	3.28	0.75	0.37	0.38	66002	"
.....	9.69	90.31	3.84	0.88	0.48	0.40	66003	"
.....	8.92	91.08	2.30	0.64	0.42	0.22	66004	"
.....	9.74	90.26	2.25	0.69	0.49	0.20	66005	"
.....	5.98	94.02	2.37	0.79	.....	.....	66006	"
.....	7.63	92.37	1.54	0.72	.....	.....	66007	Adulterated.
.....	6.33	93.66	2.55	0.74	.....	.....	66008	Genuine.
.....	4.03	95.97	2.75	0.78	.....	.....	66009	"
.....	5.62	94.38	2.06	0.74	.....	.....	66010	"
.....	3.61	96.39	3.33	1.01	.....	.....	66011	"
.....	3.80	96.14	2.46	0.80	.....	.....	66012	"
.....	4.69	95.31	3.29	0.89	.....	.....	66013	"
.....	9.98	90.02	2.87	1.01	.....	.....	66014	"
.....	3.43	96.57	2.02	0.75	.....	.....	66015	"

7 GEORGE V, A. 1917

BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
April 23	Sucre d'érable.	56343	H. St. Cyr, 95 du Pont, Quebec.	2 lb.	30	T. Bureau, Sault Monorency.	
" 20	"	56345	O. Lacroix, 19 St. Joseph, Quebec.	1 "	12	Louis Chevalier, St. Tite des Caps.	
" 20	"	56346	Elz. Turcotte, 74 Desfosés, Quebec.	2 "	30	Phil Vezina, Ange Gardien.	
" 20	"	56347	" " "	2 "	30	H. Demers, Megan-tie, St. Pierre Bap-tiste.	
" 20	"	56348	" " "	2 "	30	Unknown	
" 21	"	56349	Myrant & Poulot, Que-bec.	1 "	15	Huot, Ange Gardien.	
" 21	"	56350	Chs. Riverin, 55 Couronne, Quebec.	1 "	15	Paré, St. Gervais.	
" 22	"	56351	Cantin & Frere, 271 St. Joseph, Quebec.	1½ "	24	Huot, Ange Gardien.	
" 23	"	56352	H. D. Marier, 174 Dor-chester, Quebec.	1 "	16	Durand, St. Famille.	
" 23	"	56353	Z. Paquet & Co., 154 du Pont, Quebec.	1 "	13	Tremblay	
" 23	"	56354	G. L. Letourneau, 133 du Pont, Quebec.	2 "	26	Audet, St. Anselme.	
" 26	"	56355	C. O. Simard, 8 St. Jean, Quebec.	2 "	35	Vezina, Ange Gar-dien.	
" 26	"	56357	Jos. Savard, 35 St. Jean, Quebec.	2 "	35	Z. Gariépy, Ange Gardien.	
" 26	"	56358	A. Grenier, 94 St. Jean, Quebec.	2 "	35	A. Mathier, Ange Gardien.	
" 26	"	56361	A. Turcotte, 272 St. Jean, Quebec.	1 "	17	Hardy, St. Basile.	

DISTRICT OF QUEBEC PROVINCE—J. AUDET, D. BROCHU,

April 21	Sucre d'érable.	3833	C. Carbonneau, Ste. Mar-guerite.	1 lb.	25		
" 23	"	3835	A. Audet, Ste. Claire	1 "	25		
" 27	"	3836	F. Dallaire, St. Anselme.	1 "	25		
" 28	"	3837	J. Fortier, St. Edward	1 "	25		
May 15	Sucre	3856	Lacasse & Audet, St. Ed-ward.	2 "	30		
" 17	"	3859	Chas. Rodville, St. Benja-min.	3 "	25		
" 18	"	3860	Nap. Langelier, St. Pros-pere.	3 "	50		
" 25	"	3863	D. Towell, St. Leon de Standon.	3 "	50		
" 27	"	3857	A. Clouthier, St. Odilon	3 "	35		
June 3	Sucre d'érable	3865	Jos. Tanguay, St. Nazaire	3 "	40		

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.		
		Total Ash. Lead Number (Canadian).		

F. X. W. E. BELAND, INSPECTOR.

	p. c.	p. c.			
.....	2.14	1.51	6.12	56343	Genuine.
.....	4.92	1.04	3.58	56345	"
.....	6.00	1.03	3.48	56346	"
.....	5.10	0.73	1.80	56347	"
.....	5.44	1.30	3.86	56348	"
.....	3.75	1.33	4.31	56349	"
.....	8.45	1.12	3.82	56350	"
.....	6.37	1.17	4.36	56351	"
.....	4.39	1.43	4.84	56352	"
.....	6.91	1.46	4.66	56353	"
.....	8.16	1.27	3.29	56354	"
.....	6.48	1.10	3.77	56355	"
.....	6.20	0.87	2.42	56357	"
.....	7.62	1.11	3.93	56358	"
.....	5.64	0.96	3.34	56361	"

T. GENDREAU, N. CADIEUX, TEMPORARY INSPECTORS.

.....	4.34	0.91	2.92	3833	Genuine.
.....	3.80	0.91	3.92	3835	"
.....	1.71	1.12	3.75	3836	"
.....	4.02	1.25	3.86	3837	"
.....	7.22	1.41	5.35	3856	"
.....	6.28	1.02	3.61	3859	"
.....	5.25	1.04	4.39	3860	"
.....	5.75	0.87	3.00	3865	"
.....	7.58	1.08	3.90	3867	"
.....	6.61	1.18	4.59	3868	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1915.							
June 8	Sucré d'érable.	3869	Louis Carrier, St. Honoré de Chenly.	3 lb.	50	.....	.....
" 9	" ..	3870	Arthur Boutin, St. Gideon	3 "	50	.....	.....
" 17	Sucré.....	3872	J. C. Bolduc, Ste. Méthode.	4 "	60	.....	.....
May 3	Sucré d'érable.	3543	Alfred Pouliot, St. Philémon.	2 "	24	Pierre Gagnon, St. Philémon.	.....
" 4	" ..	3546	Cyrille Larochelle, St. Magloire.	2 "	24	Jos. Larochelle, St. Camille.	.....
" 4	" ..	3548	Alfred Labbe, St. Magloire.	2 "	28	L. Labbe, St. Magloire.	.....
" 4	" ..	3549	Louis Asselin, St. Sabina.	2 "	24	A. Labbe, St. Magloire.	.....
" 5	" ..	3553	Louis Laverdière, St. Magloire.	2 "	26	Jos. Laverdière, St. Magloire.	.....
" 6	" ..	3555	Philiberte Laval, Buckland.	2 "	24	Jos. Boutin, Buckland.	.....
" 6	" ..	3556	Alfred Audet, St. Damien.	2 "	24	Wm. Guilmet, St. Damien.	.....
" 7	" ..	3560	Jos. Robert, St. Damien.	2 "	24	Wm. Mercier, St. Damien.	.....
" 7	" ..	3561	" " ..	2 "	24	Amédé Audet, St. Damien.	.....
" 8	" ..	3570	Ant. Labrecque, St. Raphael.	2 "	25	Edouard Boufard, St. Raphael.	.....
" 10	" ..	3576	François Coté, Armagh.	2 "	30	Pierre Coté, Armagh.	.....
" 10	" ..	3577	Pierre Isabel, Armagh.	2 "	28	Fr. Isabel, Armagh.	.....
" 10	" ..	3579	Donat Brochu, Armagh.	2 "	30	Alfred Royer, Armagh.	.....
" 10	" ..	3583	Michel Cadrin, Armagh.	2 "	26	Charles Cadrin, Armagh.	.....
April 23	" ..	2754	Nap. Letourneau, Montmagny.	2½ "	30	Damase Cloutier, St. Thomas.	.....
" 27	" ..	2762	A. Caron, St. Pierre	1½ "	18	Vendor .....	.....
" 29	" ..	2765	J. Z. Guimond, Cap St. Ignace.	1½ "	24	Michel Delage, Cap St. Ignace.	.....
" 29	" ..	2766	W. Bernier, Cap St. Ignace.	2 "	25	Vendor .....	.....
" 24	" ..	270	Pierre Simard, St. Hypothite.	1 "	20	.....	.....
May 20	" ..	56447	Hellem & Bros., Rimouski.	1 "	15	Babzile & Gagnon, St. Modiste.	.....
" 20	" ..	56450	Joseph Garneau, Rimouski.	1 "	17	.....	A. Legaré & Fils, Quebec.
" 22	" ..	56452	Pierre Berube, Fraserville.	1 "	13	Irene Calivette .....	.....
" 22	" ..	56454	J. A. Chamard, Fraserville.	1 "	13	Thos. Chamard, St. Jean, Port Jolie.	.....
" 22	" ..	56455	Joseph Vill, Fraserville.	1 "	17	Auguste St. Pierre, St. Cyrille.	.....
" 22	" ..	56460	Damien & Cie, Fraserville.	1 "	15	.....	O. Carbonneau, L'Islet.

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.			
		Total Ash.	Lead Number (Canadian.)		

Continued.

	p.c.	p.c.			
.....	7.34	0.93	3.23	3869	Genuine.
.....	4.92	1.00	3.45	3870	"
.....	7.73	1.03	4.17	3872	"
.....	7.79	1.19	4.64	3543	"
.....	7.51	1.25	4.77	3546	"
.....	7.87	1.29	5.60	3548	"
.....	8.07	1.36	5.69	3549	"
.....	4.97	1.41	5.47	3553	"
.....	6.41	1.25	4.62	3555	"
.....	5.44	1.22	4.84	3556	"
.....	4.01	1.22	4.46	3560	"
.....	7.62	1.04	3.44	3561	"
.....	5.19	1.43	5.37	3570	"
.....	5.53	1.06	3.75	3576	"
.....	5.40	1.03	3.94	3577	"
.....	3.80	0.93	3.43	3579	"
.....	8.41	1.14	3.80	3583	"
.....	1.79	1.16	4.93	2754	"
.....	5.04	1.29	3.97	2762	"
.....	1.38	1.18	3.75	2763	"
.....	1.21	1.19	4.12	2766	"
Purchased at St. Jerome Market.	1.77	1.01	3.61	270	"
.....	7.11	1.51	5.44	56447	"
.....	7.94	1.50	4.50	56450	"
.....	5.08	1.55	6.63	56451	"
.....	4.44	1.40	5.35	56454	"
.....	2.76	1.29	5.17	56455	"
.....	3.11	1.29	4.57	56459	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.

DISTRICT OF QUEBEC PROVINCE—

1915.							
June 2	Sucre d'érable.	56473	Joseph L. Drolet, Fraserville.	1 lb.	25	H. Belanger, St. Aubert.	
" 2	"	56474	Eugène Michaud, Fraserville.	1 "	14		Dominion Fish, Quebec.
" 2	"	56475	Joseph A. Michaud, Fraserville.	1 "	15	H. Belanger, St. Aubert.	
" 2	"	56476	Joseph Bernier, Fraserville.	1 "	15		O. Carbonneau, L'Islet.
" 4	"	56478	F. Lavali, St. Jean, Port Jolie.	1 "	10	Abraham Caron, St. Jean, Port Jolie.	
May 17	"	2488	J. A. Provencher, Matane.	1 "	18		
" 17	"	2489	N. Durette	1 "	20		
" 19	"	2496	A. F. Boutin, Mont Joli.	1 "	13		

DISTRICT OF THREE RIVERS—

May 11	Maple Sugar.	67958	Narcisse Roberge, St. Felix de Valois.	1 lb.	15	Vendor.....	
" 14	"	67963	Ed. Joly, St. Cleophas...	1 "	10	"	
" 8	"	67965	Paul Champagne, St. Jean de Matha.	3 "	30	"	
" 8	"	67966	Wilfrid Roy, St. Jean de Matha.	2 "	20	"	
" 10	"	67967	Louis Desroches, St. Jean de Matha.	3 "	30	"	
" 11	"	67974	Louis Boucher, Castle Hill	1 "	10	"	
" 12	"	67975	Alexis Lepicier, Ste. Cecile	1 "	10	"	
" 12	"	67976	Michel Lepicier, Ste. Cecile	1 "	10	"	
" 13	"	67977	Veuve V. Ducharme, St. Cleophas de Brandon.	2 "	20	"	
" 24	"	69101	Nap. Gravel, St. Léon...	1 "	12	"	

DISTRICT OF MONTREAL—

April 30	Maple Sugar	67166	N. Trudeau, 248 Dandurand St., Rosemount, Montreal.	1½ lb.	24		Horne Food Co...
" 30	"	67167	J. E. Normandeau, 2252 Boul. Rosemount, Montreal.	1½ "	25		Gunn & Langlois..
" 30	"	67168	A. Petit, 2424 Boul. Rosemount, Montreal.	1½ "	30		" " ..
" 30	"	67169	H. Pepin, Dandurand and 9th ave., Boul. Rosemount, Montreal.	1½ "	20		National Produce Co.

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Op of the Chief Analyst.
	Water.	Results on dry basis.			
		Total Ash.	Lead Number (Canadian.)		

Concluded.

	p. c.	p. c.			
.....	2.52	1.31	4.92	56473	Genuine.
.....	5.53	0.89	2.68	56474	"
.....	3.92	1.12	3.54	56475	"
.....	3.98	1.17	4.06	56476	"
.....	4.74	1.51	4.67	56478	"
.....	7.70	0.60	1.01	2488	Adulterated.
.....	5.30	1.56	5.78	2489	Genuine.
.....	3.61	1.17	4.82	2496	"

DR. V. P. LAVALLEE, INSPECTOR.

.....	5.63	1.05	4.07	67958	Genuine.
.....	5.59	0.97	3.04	67963	"
.....	7.44	1.03	3.44	67965	"
.....	6.04	0.98	3.48	67966	"
.....	9.64	0.95	3.25	67967	"
.....	4.26	1.15	4.43	67974	"
.....	5.20	1.03	3.52	67975	"
.....	5.87	0.98	3.59	67976	"
.....	8.54	1.32	4.10	67977	"
.....	4.79	1.29	5.04	69101	"

D. J. KEARNEY, INSPECTOR.

.....	3.17	0.13	0.01	67166	Adulterated
.....	2.95	0.89	3.09	67167	Genuine.
.....	1.79	1.23	4.45	67168	"
Was purchased as Com- pound Maple Sugar.	7.30	0.06	0.00	67169	Adulterated. Note 1.

Date of Collectn. a.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
May	5	Maple Sugar.	67170 M. A. Payette, 217 Ontario st., Maisonneuve.	1 lb	15	.....	W. Wolfe.....
"	5	"	67171 Phil. Cardon, 35 Market, Maisonneuve.	1 3/4 "	28	.....	Gunn & Langlois..
"	5	"	67172 D. Marion, 659 Ontario st., Maisonneuve.	1 3/4 "	24	.....	N. Fountaine.....
"	5	"	67173 Pierre Serve, 858 Ontario st., Maisonneuve.	1 1/2 "	24	.....	Gunn & Langlois..
"	5	"	67174 A. Onellette, 945 Colonial st., Montreal.	1 3/4 "	26	.....	W. Champagne....
"	5	"	67175 P. Deshieres, 1750 Cadiex st., Montreal.	.....	.....	.....	.....
"	5	"	67176 E. Beauchamp, 1731 Cadiex st., Montreal.	2 1/4 "	35	.....	J. Gratton.....
"	5	"	67177 F. Legault, 1400 City Hall ave., Montreal.	1 3/4 "	23	.....	Unknown.....
"	5	"	67178 P. Paquette, 1399 City Hall ave., Montreal.	1 1/4 "	16	.....	".....
"	5	"	67179 A. Boisvert, 1401 City Hall ave., Montreal.	1 3/4 "	25	.....	J. Limoges.....
"	5	"	67180 J. A. Tardif, 1030 Henri Julien st., Montreal.	1 3/4 "	23	.....	".....

DISTRICT OF EASTERN TOWNSHIP AND VALLEYFIELD—

May	5	Maple Sugar	58116 J. B. St. Pierre, St. Hyacinthe.	1 blk.	10	.....	.....
"	5	"	58117 L. Gendron, St. Hyacinthe.	1 "	12	.....	.....
"	5	"	58118 J. Leduc, St. Hyacinthe.	1 "	30	.....	.....
"	5	"	58119 Horace Robinson, St. Hyacinthe.	1 "	10	.....	.....
"	10	"	58120 P. J. Girard, Richmond Est.	1 "	10	.....	.....
"	10	"	58121 E. G. Pearson, Richmond Est.	1 "	25	.....	.....
"	10	"	58122 Gun & Elliott.....	1 "	25	J. Hodge, Dennison Mills.	.....
"	10	"	58123 Alphonse Girard, Richmond Est.	1 "	12	.....	.....
"	10	"	58124 F. J. Verrill, Melbourne.	1 "	15	Chester & Fleck, Melbourne.	.....
"	10	"	58125 E. E. Biron, Sherbrooke..	1 "	10	.....	.....
"	10	"	58126 Herbert & Fortier, Sherbrooke.	1 "	20	J. Lapointe, Compton.	.....
"	10	"	58127 Bernard & Cie, Sherbrooke.	1 "	10	.....	.....
"	10	"	58128 Geo. F. Moore, Sherbrooke.	1 "	15	.....	.....
"	10	"	58129 J. Audet, Coaticook.....	1 "	12	J. Vallee, Compton.	.....
"	12	"	58130 Woodman & McKee, Sherbrooke.	1 "	18	H. H. Edwards, Coaticook.	.....

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.		
		Total Ash. Lead Number (Canadian).		

Concluded.

	p. c.	p. c.			
.....	7.08	0.79	2 10	67170	Genuine.
.....	3.44	1.32	4.44	67171	"
.....	7.68	0.87	2.81	67172	"
.....	3.17	1.25	4.40	67173	"
.....	7.21	0.74	2.46	67174	"
.....	7.10	0.89	3.14	67175	"
.....	3.52	0.89	3.61	67176	"
.....	5.44	1.08	3.85	67177	"
.....	1.46	0.77	2.31	67178	"
.....	6.28	1.00	3.06	67179	"
.....	2.48	1.03	3.56	67180	"

J. J. COSTIGAN, INSPECTOR.

.....	2.05	0.63	2.87	58116	Genuine.
.....	7.40	0.99	2.93	58117	"
Concord	4.39	0.62	2.05	58118	"
.....	2.32	1.30	0.42	58119	Adulterated.
.....	6.10	0.94	2.81	58120	Genuine.
.....	2.63	0.98	3.17	58121	"
.....	2.47	0.90	3.30	58122	"
.....	5.09	0.87	2.44	58123	"
.....	6.97	0.99	3.53	58124	"
.....	3.85	0.07	0.03	58125	Adulterated.—Note 2.
.....	3.74	0.85	2.52	58126	Genuine.
.....	5.68	0.86	2.39	58127	"
.....	4.10	1.02	3.14	58128	"
.....	8.16	0.93	3.41	58129	"
.....	2.16	0.88	2.22	58130	"

7 GEORGE V, A. 1917

BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF EASTERN TOWNSHIPS AND VALLEYFIELD—							
1915.							
April 21	Maple Sugar ..	57916	Joseph Miron, Hawkesbury.	1 lb.	15	Arthur Aubrey, Mont Oscar.	.....
" 21	" ..	57917	Laurin & Frère, Hawkesbury.	1 cake	17	John Milner, Hawkesbury.	.....
" 22	" ..	57918	Graham & Hunter, St. Lambert.	1 "	35	.....	Lessiham Graham, Montreal.
" 22	" ..	57919	J. A. Tremblay & Cie, St. Lambert	1 "	28	.....	Gunn Langlois,
" 23	" ..	57920	P. J. Roy, St. Johns, P.Q.	1 blk.	16	.....	.....
" 23	" ..	57921	A. Foisy, St. Johns, P.Q.	1 "	16	W. Hodge, Stanbridge East.	.....
" 23	" ..	57922	W. K. Simpson, St. Johns, P.Q.	1 "	15	W. S. Clark, Highwater.	.....
" 27	" ..	57923	E. Bougie, Valleyfield...	1 "	26	.....	.....
" 27	" ..	57924	Leduc & Prieur, Valleyfield.	1 "	28	.....	.....
May 1	" ..	57925	Pringle Stark Co., Huntingdon.	1 "	50	Vendors.....	.....
" 3	" ..	57926	Jean Simon, Longueuil...	1 "	27	.....	Gunn Langlois, Montreal.
" 3	" ..	57927	Charles Lord, Longueuil.	1 "	25	.....	.....
" 3	" ..	57928	L. M. Lanarre, Longueuil	1 "	15	G. Gagnon, Lawrenceville.	.....
" 3	" ..	57929	V. Dare, Longueuil.....	1 "	23	.....	.....
" 3	" ..	57930	Gustave Bourdon, Longueuil.	1 "	24	.....	.....

DISTRICT OF OTTAWA—

April 17	Maple Sugar.	63601	A. M. Parkinson, Kempville.	1 lb..	15	James Hyndman, Oxford, Ont.	.....
" 20	" ..	63604	Mrs. J. Laurie, Perth, Ont.	1 " ..	20	Mr. Purdon, McDonald's Corners.	.....
" 20	" ..	63605	Mrs. J. Sutherland, Perth, Ont.	3 " ..	15	Sugars & Canners, Ltd., Montreal.	.....
" 27	" ..	63625	P. J. Campbell, Renfrew.	1 " ..	15	A. J. Shepard, Frelighsburg, P.Q.	.....
" 27	" ..	63628	A. E. Leach, Renfrew....	1 cake	10	Canada Maple Exchange, Montreal.	C. E. Plain, Ottawa.
" 27	" ..	63630	H. Brydge, Renfrew...	1 " ..	10	Ramsays, Ltd., Montreal.	.....
" 27	" ..	63632	P. J. Frood, Renfrew ..	1 box.	20	Canada Maple Exchange, Ltd., Montreal.	.....
" 30	" ..	63635	J. Bambrick, George st., Ottawa.	1 cake	50	L'Asso. Co-Op. Agr., 27 William st., Montreal.	Moyneur's, Ltd., Ottawa.
" 30	" ..	63636	Moyneurs, Ltd., Ottawa.	1 "	20	.....	L. Assoc. Co-Op. Agr., Montreal.
" 30	" ..	63640	Wall & Co., Byward Market, Ottawa.	1 "	20	.....	Moyneur's, Ltd., Ottawa.
" 30	" ..	63642	L. Malette, Dalhousie st., Ottawa.	1 "	10	Maple's, Ltd., Toronto.	J. G. Whyte & Sons, Ottawa.

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report, (Is not an expression of opinion.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.			
		Total Ash.	Lead Number. (Canadian).		

Concluded.

	p. c.	p. c.			
.....	4.24	1.31	4.74	57916	Genuine.
.....	6.64	1.36	4.34	57917	"
.....	2.84	1.16	4.16	57918	"
.....	2.42	1.26	4.29	57919	"
.....	7.24	0.17	0.07	57920	Adulterated.—Note 1.
.....	2.68	1.01	3.24	57921	Genuine
.....	6.41	0.82	2.62	57922	"
.....	8.04	0.84	2.73	57923	"
.....	5.47	1.23	3.79	57924	"
.....	4.72	0.65	2.46	57925	"
.....	4.59	1.05	3.69	57926	"
.....	4.25	0.96	3.59	57927	"
.....	6.44	0.74	2.19	57928	"
.....	5.78	0.91	3.42	57929	"
.....	8.18	1.02	3.39	57930	"

J. A. RICKEY, INSPECTOR.

.....	5.63	0.81	2.35	63601	Genuine.
.....	2.46	1.10	3.40	63604	"
.....	4.07	0.88	3.59	63605	"
.....	8.09	0.91	2.81	63625	"
Labelled Small's Genuine, Pure Standard Maple Sugar.	5.45	1.06	4.18	63628	"
.....	3.40	0.53	1.64	63630	Adulterated.
Granulo.	1.32	0.18	0.72	63632	— Note 2
.....	6.97	0.96	2.41	63635	Genuine.
.....	8.11	0.95	3.02	63636	"
.....	3.46	0.93	2.96	63640	"
Sample from Box labelled, Pure Maple Sugar.	2.48	0.40	0.90	63642	Adulterated.—Note 4

7 GEORGE V, A. 1917

BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1915.							
April 28	Maple Sugar.	68011	J. R. B. Gage, Kingston.	1 lb..	30	Sugars & Cannerns, Ltd., Montreal.	
May 4	"	68012	McGinty & Lynch, Belleville.	1 " ..	25		Warne Bros., Toronto.
" 4	"	68013	R. Elvins, Belleville.....	1 " ..	30		J. Sloane & Co., Belleville.
" 4	"	68014	W. M. Fox & Co., Cobourg.	1 " ..	30	Maple Tree Producers, Ltd., Montreal.	
" 4	"	68015	E. Guillet, Cobourg ...	1 " ..	45		Stevens & Solomon Hamilton.
" 4	"	68016	W. Burnet, Cobourg.....	1 " ..	30		Armstrong & Pafford, Toronto.
" 5	"	68017	F. H. Brown, Port Hope.	1 " ..	30		White & Co., Toronto.
" 5	"	68018	W. D. Stephens, Port Hope.	1 " ..	30		H. P. Eckardt & Co., Toronto.
" 5	"	68019	A. Pearson, Peterboro....	1 " ..	30		Rishors, Ltd., Peterboro.
" 5	"	68020	J. Sutherland, Peterboro.	1 " ..	40	Sugars & Canner's Ltd., Montreal.	

DISTRICT OF TORONTO—

May 19	Maple Sugar.	67024	J. Bigley, 104 Queen st., Toronto.	2 bars	20		A. Mayer, Toronto.
" 19	"	67025	J. C. Craig, 468 Spadina ave., Toronto.	2 " "	20		Sugars & Cannerns, Ltd., Toronto.
" 20	"	67026	B. S. McMurty, 2511 Yonge st, Toronto.	2 " "	20	Maple Tree Producers Association, Montreal.	
" 22	"	67027	F. E. Cleland, 400 Bloor st. w., Toronto.	2 " "	20		A. Mayer, Toronto.
" 22	"	67028	C. N. Allen, 551 Bloor st. w., Toronto.	2 " "	20		Unknown
" 11	"	67029	Thos. Hook, Markham....	2 " "	20		F. W. Humphrey, Toronto.
" 12	"	67030	J. Cherpaw, Uxbridge ...	2 " "	20		John Sloan & Co., Toronto.
" 12	"	67031	Willard & Co., Port Perry.	2 " "	20		F. W. Humphrey, Toronto.
" 14	"	67032	J. J. Hatley, Orillia.....	1 lb.	20	Mrs. Weir, Tudhope.	
" 15	"	67033	H. E. Gladstone, Midland.	2 bars.	20		W. H. Gillard & Co., Hamilton.

DISTRICT OF HAMILTON—

April 26	Maple Sugar.	66948	A. H. Foote, Fergus. . .	2 bars	20		McLaughlan & Sons, Owen Sound.
" 27	"	66949	J. S. Ireland, Mount Forest.	3 lb.	20		Geo. E. Bristol & Co., Hamilton.
" 29	"	66950	A. Fedy, Mildmay. . .	2 bars	20		T. B. Escott, London.
" 29	"	66951	Ballachey Laidlow & Co., Paisley.	3 lb..	20		Unknown.

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.			
		Total Ash.	Lead Number (Canadian).		

JAS. HOGAN, INSPECTOR.

	p. c.	p. c.			
.....	4.86	1.22	4.92	68011	Genuine.
.....	3.85	0.53	1.87	68012	Meets legal requirements.
.....	4.57	0.58	2.00	68013	Genuine.
.....	7.27	0.86	3.05	68014	"
.....	1.70	0.58	1.82	68015	Meets legal requirements.
.....	0.83	0.69	2.74	68016	Genuine.
.....	3.19	0.57	2.01	68017	"
Vendor stated that sugar was last year.	4.36	0.40	1.08	68018	Adulterated.—Note 4.
.....	4.23	1.10	4.50	68019	Genuine.
.....	5.02	1.46	5.58	68020	"

H. J. DAGER, INSPECTOR.

.....	3.93	0.64	2.32	67024	Genuine.
.....	5.04	0.92	3.17	67025	"
.....	1.91	0.81	3.07	67026	"
.....	3.50	0.64	2.26	67027	"
.....	3.16	0.69	2.58	67028	"
.....	3.27	1.25	4.75	67029	"
.....	3.08	0.52	1.57	67030	Adulterated.—Note
.....	3.16	0.49	1.45	67031	" —Note 4
.....	3.93	0.94	3.48	67032	Genuine
.....	3.14	0.65	2.34	67033	"

H. J. DAGER, ACTING INSPECTOR.

.....	4.21	0.10	1.76	68048	Meets legal requirements.
.....	3.05	0.20	0.98	68049	Adulterated.—Note 4
.....	3.92	0.20	0.96	68050	"
.....	3.21	0.60	2.12	68051	Genuine

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1915.							
April 30	Maple Sugar.	66952	S. Bourgeman, Chisley...	2 bars	20	.....	McCormick Mfg. Co., London.
" 30	"	66953	D. A. McClean, Owen Sound.	2 "	20	.....	McLaughlan Sons Co., Owen Sound
May 4	"	66954	B. H. Walsh, Oakville...	2 "	20	.....	Laing & Sons, Hamilton.
" 4	"	66955	W. W. Cune, Burlington.	2 "	20	.....	" " ..
" 5	"	66956	P. J. Galvin, 45 York st., Hamilton.	2 "	30	.....	McClatchie Bros., Cowansville, P.Q.
" 5	"	66957	Holmwood Produce Dairy Co., 477 King st. E., Hamilton.	2 "	20	.....

DISTRICT OF WINDSOR—

April 21	Maple Sugar.	54767	J. P. Sheppard, Clinton..	3 bars	30	.....	E. Adams & Co., London.
" 21	"	54769	W. T. O'Neil, Clinton....	3 "	30	.....	H. P. Eckhardt, Toronto.
" 21	"	54774	E. E. Hunniford, Clinton	3 "	30	.....	Maples Ltd., Toronto
" 22	"	54781	R. S. Clark, Seaforth	3 "	30	.....	M. Masurett & Co., London.
" 22	"	54788	W. R. Cole, Mitchell.....	3 "	30	.....	Unknown
May 3	"	54601	W. H. Tricker, Sarnia....	3cakes	30	.....	McCormick Mfg. Co., London.
" 3	"	54602	Jas. Galbraith, Sarnia....	3 "	55	A. W. Westover, Sutton Junction.	
" 3	"	54603	R. Wanless & Co., Sarnia	3 "	25	Geo. Setler, Arcona.	

DISTRICT OF MANITOBA—

April 28	Maple Sugar.	61262	The T. Eaton Co. Ltd., Winnipeg.	1 lb..	30	Jas. Davidson, Waterloo Jct.	
" 28	"	61263	Hudson Bay Co., Winnipeg.	1 "	30	Can. Maple Exchange Ltd., Montreal.	
" 29	"	61264	W. J. Sutherland, Winnipeg.	1 "	30		
" 29	"	61265	Hardy & Buchanan, Winnipeg.	1 "	20	Jas. A. Grubb, West Shefford, P.Q.	
May 10	"	61266	J. A. McDowell, Portage ave., Winnipeg.	1 "	30	Can. Maple Exchange Co., Montreal.	
" 11	"	61267	Rockwood Store, 476 Portage ave., Winnipeg.	3/4 "	15	Small's, Montreal.	
" 11	"	61268	H. E. Weidon & Co., Portage ave., Winnipeg.	1 "	20		
" 18	"	61269	P. W. Hutton, Minnedosa.	1 "	15		Telfer Bros., Winnipeg.
" 27	"	61270	Bentrand & Co., Brandon	1 "	30		
" 27	"	61271	Mutter Bros., Brandon...	1 "	35	Maple Tree Producers Assn., Montreal.	

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Results on dry basis.		Solids.		
		Total Ash.	Lead Number (Canadian).			
<i>Concluded.</i>						
	p. c.	p. c.		p. c.		
.....	3·07	0·08	0·03	.....	66952	Adulterated.—Notes 5 and 3.
.....	2·93	0·62	2·47	.....	65953	Genuine.
.....	3·26	0·52	1·13	.....	66954	Adulterated.—Notes 3 and 4.
.....	4·22	0·57	1·97	.....	66955	Genuine
.....	4·54	0·75	2·71	.....	66956	"
.....	4·58	0·84	2·87	.....	66957	"

JOHN TALBOT, INSPECTOR.

.....	3·80	0·68	2·58	.....	54767	Genuine.
.....	2·99	0·83	3·03	.....	54769	"
.....	3·72	0·92	3·81	.....	54774	"
.....	2·82	0·56	1·93	.....	54781	"
.....	3·76	0·48	1·49	.....	54788	Adulterated.—Notes 4
.....	5·02	0·18	0·08	.....	54601	"
.....	4·66	0·89	2·95	.....	54602	Genuine.
.....	2·01	0·91	2·84	.....	54603	"

A. C. LARIVIERE, INSPECTOR.

.....	1·78	0·83	3·57	.....	61262	Genuine
.....	3·50	0·95	2·62	.....	61263	"
Pride of Canada...	2·62	0·82	3·21	.....	61264	"
.....	4·53	0·64	1·19	.....	61265	Adulterated
.....	7·16	.....	7·58	92·84	61266	Genuine
.....	7·68	.....	4·20	92·35	61267	"
.....	5·43	.....	3·65	94·67	61268	"
Small's.....	7·14	.....	3·51	92·86	61269	"
.....	8·79	.....	3·17	91·80	61270	"
.....	5·82	.....	3·29	94·48	61271	"

7 GEORGE V, A. 1917

BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1915.							
April 28	Maple Sugar.	66365	Chalton & Tetreau, Gull Lake.	1 lb..	25	Paulin Chambers Co. Winnipeg.	.....
May 3	" ..	66375	A. McDonald Co., Moose Jaw.	1 " ..	15	Maples Ltd., Toronto.	.....

DISTRICT OF ALBERTA—

May 18	Maple Sugar	52162	Hudson's Bay Co., Edmonton.	1 lb..	30	E. J. Berry, Brome, P.Q.	.....
" 20	" ..	52163	John Irwin Co., Edmonton.	1 " ..	25	" " "	.....
" 21	" ..	52164	Pryce Jones (Canada) Ltd. Edmonton.	1 " ..	30	" " "	.....
June 16	" ..	52165	Sprague & Williamson, Medicine Hat.	1 " ..	25	J. Brock, Bolton Centre, P.Q.	.....

DISTRICT OF ROCKY MOUNTAINS—

April 26	Maple Sugar	61806	Trail Grocery, Trail ..	1 lb..	40	Can. Maple Exchange, Montreal.	.....
May 20	" ..	61812	Ira R. Manning, Cranbrook.	1 " ..	30	Maples Ltd., Toronto.	.....
" 20	" ..	61824	E. G. Gwynne, Cranbrook	1 " ..	20	The Maple Tree Products Ass'n., Montreal.	.....

DISTRICT OF VANCOUVER—

May 7	Maple Sugar	55246	The Fairview Grocery, 2242 Granville st., Vancouver.	2 cks.	30	Maples Ltd., Toronto.	.....
" 7	" ..	55247	Mills & McAdam, 2039 4th Ave. W., Vancouver	2 " ..	20	Sugars & Cannery, Montreal.	.....
" 7	" ..	55248	Morrow & Deane, 7th Ave. and Yewst., Vancouver.	2 " ..	25	Maples Ltd., Toronto.	.....
" 10	" ..	55249	Dickie's Grocery, Ltd., 660 Hornby st., Vancouver.	2 " ..	20	Maple Tree Producers Ass'n., Montreal.	.....
" 10	" ..	55250	S. Pritchard, 950 Robson st., Vancouver.	2 " ..	20	Maples Ltd., Toronto.	.....
" 10	" ..	55251	I. X. L. Grocery, 1013 Robson st., Vancouver.	2 " ..	20	Maple Tree Producers Ass'n., Montreal.	.....
" 10	" ..	55252	Robson Grocery, 1028 Robson st., Vancouver.	2 " ..	20	" " "	.....
" 10	" ..	55253	C. A. Welsh, Ltd., 681 Columbiast., New Westminster.	2 " ..	20	Maples Ltd., Toronto.	.....

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.			
		Total Ash.	Lead Number (Canadian).		

L. H. HALL, INSPECTOR.

	p. c.	p. c.			
.....	2.15	0.97	0.93	66365	Adulterated.
.....	2.37	0.83	3.03	66375	Genuine.

A. W. R. MARKLEY, INSPECTOR.

.....	4.07	0.78	2.29	52162	Genuine.
.....	4.84	0.77	2.73	52163	"
.....	5.99	0.73	2.48	52164	"
.....	7.93	0.79	2.70	52165	"

THOS. PARKER, INSPECTOR.

Small's					
.....	2.88	0.95	3.03	61806	Genuine.
.....	5.87	0.74	2.86	61812	"
.....	2.07	0.93	3.83	61824	"

E. J. MORGAN, INSPECTOR.

.....					
.....	3.92	0.73	3.76	55246	Genuine.
.....	2.40	0.78	3.15	55247	"
.....	4.38	0.60	2.11	55248	"
.....	1.71	0.81	3.14	55249	"
.....	3.98	0.80	3.45	55250	"
.....	1.53	0.78	2.64	55251	"
.....	1.56	0.87	3.00	55252	"
.....	3.29	0.78	2.07	55253	"

7 GEORGE V, A. 1917

BULLETIN No. 324—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1915.							
May 7	Maple Sugar.	55254	Overwaitea Co., 746 Columbia st., New Westminster.	2 cks.	20	Maple Tree Producers Ass'n., Montreal.	.....
" 11	" ..	55255	Henderson's Groceries, Ltd., Pender and Nicola sts., Vancouver.	2 "	20	" "	.....

DISTRICT OF VICTORIA—

May 31	Maple Sugar	66716	West End Grocery Co., Ltd., 1002 Govt. st., Victoria.	3 blks.	45	Maples Ltd., Toronto.	.....
June 8	" ..	66722	Acton Bros., 1317 Douglas st., Victoria.	1 lb.	30	" "	.....
" 10	" ..	66736	The Cook St. Grocery, 1023 Cook st., Victoria.	1 "	15	.....	R. P. Rithet & Co. Victoria.
" 21	" ..	66737	H. O. Kirkham & Co., Ltd. 1109 Govt. st., Victoria.	3 blks.	30	.....	" "

SESSIONAL PAPER No. 14

MAPLE SUGAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Results on dry basis.			
		Total Ash.	Lead Number (Canadian).		

Concluded.

	p.c.	p.c.			
.....	2.62	0.86	2.46	55254	Genuine.
.....	2.43	0.86	3.11	55255	"

D. O'SULLIVAN, INSPECTOR.

.....	4.95	0.56	1.90	66716	Meets legal requirements.
.....	4.45	0.80	3.52	66722	Genuine.
.....	1.65	0.87	3.37	66736	"
.....	3.85	0.90	3.61	66737	"

APPENDIX P.

BULLETIN No. 325—MAPLE SYRUP.

OTTAWA, October 15, 1915.

J. U. VINCENT, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report dealing with two hundred and forty-three (243) samples purchased by our inspectors throughout the Dominion of Canada as Maple Syrup. This article is legally defined by Order in Council of April 15, 1915, and in force from May 15, 1915, and is required to meet the following specifications:—

STANDARDS FOR MAPLE SYRUP.

“Maple syrup shall be syrup made by the evaporation of maple sap, or by the solution of maple concrete in water, and contain not more than thirty-five (35) per cent of water, and an imperial gallon of maple syrup, measured at ordinary temperature of the air, shall weigh not less than thirteen pounds three ounces. The dry substance of maple syrup shall meet all the standards for maple sugar.”

Provided always that the Governor in Council may from time to time vary and change the said standards for maple sugar and maple syrup.”

Section 29a of the Amending Act, provides as follows:—

“1. No person shall manufacture for sale, keep for sale, offer or expose for sale, or sell, any article of food resembling or being an imitation of maple sugar or maple syrup, or which is composed partly of maple sugar or maple syrup, and which is not pure maple sugar or pure maple syrup.

“2. Any maple sugar or maple syrup which is not up to the standard prescribed by the sixth schedule to this Act, or, if such standard is changed by the Governor in Council, to such standard as the Governor in Council may from time to time prescribe, shall be deemed to be adulterated within the meaning of this Act.

“3. The word “maple” shall not be used, either alone or in combination with any word or words, or letter or letters, on the label or other mark, illustration or device on a package containing any article of food, or on any article of food itself, which is not pure maple sugar or pure maple syrup, and any article of food labelled or marked in violation of this subsection shall be deemed to be adulterated within the meaning of this Act.”

The standards referred to above as obtaining for maple sugar, and involved in the definition of maple syrup, are as below:—

“Maple sugar shall be entirely the solid product resulting from the evaporation of maple sap, or of maple syrup, and contain not more than ten (10) per cent of water; and yield not less than six-tenths (0.6) of one per cent of ash, reckoned

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on the dry matter of the sugar when incinerated in such a way as to assure the earths being present as salts and not as oxides and not less than twelve one-hundredths (0.12) of one per cent of ash, insoluble in water, employed as described below and yielding a lead number not less than one and seven-tenths (1.7) when worked by the Canadian method, nor less than one and two-tenths (1.2) when worked by the Winton method.

"Minute traces of substances such as gelatine, albumen, isinglass, etc., which may have been employed as refining or clarifying agents in manufacture shall not be regarded as adulterants."

As judged by these standards, the samples herein reported give the subjoined results:—

	Samples
Found genuine.	192
Meet legal requirements	4
Doubtful.	1
Adulterated under Act	42
Illegal articles	4
Total.	243

In four cases, while the analysts' numbers are within the legal minimum, they are such as to justify some doubt regarding the genuineness of the samples; and in one sample (No. 66961) the results are doubtfully convincing.

I would respectfully advise publication of this report as Bulletin No. 325.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 325—

	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA

1915.							
May 19	Maple Syrup	54011	H. A. Hart, Halifax....	1 qt.	40	Unknown.	E. W. Crease & Son, Halifax.
" 20	"	54012	Jas. McGregor, "	1 "	40	Can. Maple Exchange, Montreal.	John Tobin & Son, Halifax.
" 20	"	54013	H. J. Hopgood & Son, Halifax.	1 "	40	A. W. Westover, Sutton Jct., P.Q.	Mfr.
" 20	"	54014	F. S. Short, Halifax....	1 "	35	Maples Ltd., Toronto.	John Tobin & Son, Halifax.
" 21	"	54015	J. L. Wilson & Co., Halifax.	1 "	32	Ramsays Ltd., Montreal.	Mfr.
" 21	"	54016	Bauld Bros. Ltd., Halifax	1 "	30	Maples Ltd., Toronto.	"
" 21	"	54017	T. F. Courtney & Co., "	1 pt.	20	Knox M. Dodge, Mapleton, N.S.	E. W. Crease & Son, Halifax.
" 21	"	54018	E. W. Crease & Son, "	1 qt.	50	"	Mfr.
" 25	"	54019	John Tobin & Co., "	1 "	30	Can. Maple Exchange, Montreal.	"

DISTRICT OF NOVA SCOTIA—

June 4	Maple Syrup	65856	A. A. McDonald, New Glasgow.	1 bot.	25	T. Upton Co, Hamilton.	Mfr.
" 4	"	65865	A. J. Roop, New Glasgow	1 "	40	Maples Ltd., Toronto.	R. McGregor & Sons, New Glasgow.
" 4	"	65866	D. J. Murray, "	1 "	35	Angus Fraser, Garden of Eden.	Mfr.

DISTRICT OF CAPE BRETON—

May 6	Maple Syrup	63809	Hennigers, Sydney....	1½ pt.	30	Milford Crowe, Mapleton, N. S.	.....
" 6	"	63812	Walters Confectionery, Sydney.	3 bots.	24	Maples Ltd., Toronto.	.....

DISTRICT OF PRINCE EDWARD ISLAND—

May 7	Maple Syrup.	60195	W. W. Walker, Charlottetown.	1 bot.	35	Sugars & Cannery, Ltd., Montreal.
" 7	"	60196	J. C. Crable, "	1 "	35	"	Carvell Bros., Charlottetown.

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MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to Water Free Basis.						
			Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Malic Acid Value.		

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	30.67	69.33	3.20	0.95	.....	.....	.....	54011	Genuine.
Canada's Best	34.42	65.58	2.00	0.67	.....	.....	.....	54012	"
.....	33.38	66.62	2.28	0.86	.....	.....	.....	54013	"
Old Tyme.....	33.43	66.57	0.62	0.31	.....	.....	.....	54014	Adulterated.
Snowshoe.....	31.86	68.14	2.32	0.74	.....	.....	.....	54015	Genuine
Old Tyme	34.91	65.06	0.66	0.41	.....	.....	.....	54016	Adulterated.
.....	32.82	67.18	3.18	0.84	.....	.....	.....	54017	Genuine
.....	34.32	65.68	3.30	0.97	.....	.....	.....	54018	"
.....	32.10	67.90	1.73	0.58	.....	.....	.....	54019	Meets legal requirements.

W. A. PEPTIPAS, TEMPORARY INSPECTOR.

.....	33.76	66.24	0.99	0.60	.....	.....	.....	65859	Adulterated.
.....	36.67	63.33	1.04	0.40	.....	.....	.....	65865	"
.....	37.32	62.68	4.54	1.50	.....	.....	.....	65866	Genuine

E. F. McKEEN, TEMPORARY INSPECTOR.

.....	31.38	68.62	2.96	0.82	.....	.....	.....	65867	Genuine.
.....	35.98	64.02	0.96	0.43	.....	.....	.....	65868	Adulterated.

WM. A. WEEKS, INSPECTOR.

.....	32.08	67.92	1.87	0.66	0.44	0.25	.....	66195	Genuine.
.....	34.63	65.37	1.84	0.73	0.48	0.26	.....	66196	"

7 GEORGE V, A. 1917

BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1915.							
May	6	Maple Syrup	66016 J. W. Parlee, St. John...	1 bot.	35	John Rossborough, Bear Island, N. B.	.....
"	6	"	66017 Slocum & Ferris, St. John	1 "	35	Sussex Mercantile Co., Ltd., Elgin, N. B.	.....
"	6	"	66018 L. S. Peters, St. John...	1 "	35	T. A. Groggin & Son, Elgin, N. B.	.....
"	8	"	66019 H. D. Farris, St. John...	1 "	35	Chester Morrison, Granite Hill, N. B.	.....
"	8	"	66020 W. A. Porter, St. John...	1 "	35	Fred Barr, Lower Line, Queensbury, N. B.	.....
"	14	"	66021 P. Nase & Son, St. John...	1 "	35	Brown Bros., Upper Bear Island, N. B.	.....
"	14	"	66022 McAlary & Co., Ltd., St. John.	1 "	40	John Inch & Son, Burts Corners, N. B.	.....
"	14	"	66023 R. Jones, St. John. ...	1 "	30	Tait Rabkin Co., Elgin, N. B.	Wm. Fenwick, St. John.
"	25	"	66024 Johnston & Kitchen, Fred-erickton.	1 "	35	Jones & Nelson Cliff Lower Queensbury	.....
"	25	"	66025 A. E. Eardley, Frederic-ton.	1 "	30	Yerxa Bros., Lower Line, Queensbury.	.....
"	25	"	66026 Jerxa Grocery Co., Wood-stock.	1 "	30	Wesley Sinnett, Granite Hill.	.....
June	8	"	66027 S. B. Hunter, Harvey Station.	1 "	30	C. S. Brown, Lower Queensbury.	.....
"	16	"	63028 Sussex Mercantile Co., Sussex.	1 "	30	Vendors.....	.....
"	16	"	66029 H. H. Keirstead, Sussex.	1 qt.	50	Sussex Mercantile Co.	.....
"	17	"	66030 David Steaves, Moncton..	1 bot.	30	"	.....

DISTRICT OF QUEBEC CITY—

April	20	Sirap d'érable	56330 O. Lacroix, 19 rue St. Joseph, Quebec.	1 chop	15	Jos. M. Paquet, (E. B. Squibb), New York.	Jos. M. Paquet...
"	20	"	56331 Ez. Turcotte, 74 Defoses, Quebec.	1 "	27	Jos. M. Paquet.....	O. Blouin.....
"	21	"	56332 Myrant & Pouliot, Quebec	1 "	20	Mr. Dupuis, St. Jean Isle, Orleans.	O. Blouin, St. Jean Ile, Orleans.
"	21	"	56333 " " " "	1 "	20	M. Desfrere, Ile Or-leans.	" " " "
"	21	"	56334 Chas. Riverin, 55 Cour-onne, Quebec.	1 "	18	Gervais, Pont Rouge.	Manufacturer
"	22	"	56335 Arthur Drolet, 764 St. Val-ier, Quebec.	1 "	30	Unknown.....	Unknown.....
"	22	"	56336 T. Bedard, 728 St. Valier, Quebec.	1 "	40	Ludger Leclerc, Cap. Sante.	Manufacturer.....

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MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to water free basis.					
			Lead Number (Canadian.)	Total Ash.	Water Sol- uble Ash.	Insoluble Ash.			Malic Acid Value.

JOHN C. FERGUSON, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	36.30	63.70	3.02	0.88	0.50	0.38	.....	66016	Genuine
.....	36.36	63.64	2.50	0.79	0.41	0.38	.....	66017	"
.....	31.77	68.23	2.58	0.74	0.48	0.26	.....	66018	"
.....	32.55	67.45	3.03	0.89	0.53	0.36	.....	66019	"
.....	31.95	68.05	2.56	0.76	0.50	0.26	.....	66020	"
.....	32.14	67.86	2.92	0.90	.....	.....	.....	66021	"
.....	31.54	68.46	2.04	0.79	.....	.....	.....	66022	"
.....	30.88	69.11	3.20	1.05	.....	.....	.....	66023	"
.....	31.94	68.06	4.40	0.85	.....	.....	.....	66024	"
.....	35.62	64.38	2.60	0.82	.....	.....	.....	66025	"
.....	32.14	67.86	2.20	0.79	.....	.....	.....	66026	"
.....	32.22	67.78	1.98	0.88	.....	.....	.....	66027	"
.....	34.42	65.58	3.00	0.60	.....	.....	.....	66028	"
.....	32.62	67.38	2.60	0.92	.....	.....	.....	66029	"
.....	32.62	67.38	2.80	0.93	.....	.....	.....	66030	"

F. X. W. E. BELAND, INSPECTOR.

.....	33.50	66.41	3.54	1.05	.....	.....	.....	56330	Genuine
.....	33.19	66.81	2.98	0.92	.....	.....	.....	56331	"
.....	34.39	65.71	4.12	1.09	.....	.....	.....	56332	"
.....	32.54	67.46	3.06	1.08	.....	.....	.....	56333	"
.....	32.54	67.46	2.56	0.87	.....	.....	.....	56334	"
.....	35.16	64.82	2.10	1.02	.....	.....	.....	56335	"
.....	33.50	66.41	2.88	0.92	.....	.....	.....	56336	"

7 GEORGE V, A. 1917

BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
April 22	Sirop d'é-rable.	56337	Cantin & Frere, 271 St. Joseph, Quebec.	1 chop	25	M. Blouin, Ile Orleans.	Manufacturer.....
" 22	"	56338	" " "	1 "	25	Leger Hardy, Basile.	Leger Hardy, St. Basile.
" 23	"	56339	A. Pichet, 176 Dorchester, Quebec.	1 "	20	Unknown.	Unknown.....
" 23	"	56340	J. D. Marior, 136 Dorchester, Quebec.	1 "	15	Mad. Poulin, St. Féreole.	Manufacturer.
" 23	"	56341	F. Paquet & Cie, 134 Du Pont, Quebec.	1 "	15	Tremblay	"
" 23	"	56342	J. L. Letourneau, 133 Du Pont, Quebec.	1 "	18	Unknown.....	Unknown
" 26	"	56344	C. O. Sinard, 8 St. Jean, Quebec.	1 "	20	Selvurt Nanis.	Albert Nanis, Ste. Cecile, Hamilton
" 26	"	56356	Jos. Savard, 35 " "	1 "	35	D. Drolet, Ancienne Lorette.	Manufacturer
" 26	"	56359	L. Grenier, 94 " "	1 "	17	Arthur Huot, Ange Gardien.	"

DISTRICT OF QUEBEC PROVINCE—

April 20	Sirop d'é-rable.	3829	N. Fortier, Ste. Claire....	1 pte.	25	.....	.....
" 21	"	3831	H. Bernier, Ste. Marguerite.	1 "	25	.....	.....
" 21	"	3834	J. Gagnon, Ste. Henedine	1 "	25	.....	.....
May 3	"	3544	Alfred Pouliot, St. Philemon.	1 chop	15	Pierre Gagnon, St. Philemon.	.....
" 3	"	3545	Octave Tanguay, " "	1 "	15	Vendor .....	.....
" 5	"	3552	Louis Lavediere, St. Magloire.	1 "	12	Jos. Lavediere, St. Magloire.	.....
" 6	"	3558	Alfred Audet, St. Damien.	1 "	13	Wm. Guilmet, St. Damien.	.....
" 7	"	3559	Alfred Gagne, " "	1 "	13	Guillaume Chabot, St. Damien.	.....
" 8	"	3567	Jean Lantagne, St. Raphael.	1 "	15	Aventure Roy, St. Raphael.	.....
" 16	"	3574	Francois Cote, Armagh.	1 "	14	Pierre Cote, Armagh	.....
" 10	"	3578	Pierre Isabel, " "	1 "	15	Francois Isabel, Armagh.	.....
" 10	"	3581	Donat & Brochu, " "	1 "	15	Jos. Racheford Armagh.	.....
April 21	"	3832	Clovis Carbonneau, St. Marguerite.	1 "	25	.....	.....
" 27	"	2763	A. Caron, St. Pierre Montagny.	1 "	19	Vendor.....	.....
" 29	"	2767	Dane O. Gagné.	1 "	15	Wilfred Vezina, Cap St. Ignace.
" 24	"	267	Jos. Richer, Ste. Jerome.	1 "	13

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MAPLE SYRUP.

Inspector's Rep rt. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to Water Free Basis.					
			Lead Number Canadian.	Total Ash.	Water Sol- uble Ash.	Insoluble Ash.			Malic Acid Value

Concluded.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	34.71	65.29	3.58	1.08	.....	.....	.....	56337	Genuine.
.....	33.79	66.21	3.10	1.25	.....	.....	.....	56338	"
.....	33.49	66.51	3.69	1.07	.....	.....	.....	56339	"
.....	33.79	66.21	3.92	1.10	.....	.....	.....	56340	"
.....	33.46	66.54	3.50	0.85	.....	.....	.....	56341	"
.....	31.83	68.17	2.28	0.99	.....	.....	.....	56342	"
.....	33.59	66.41	3.00	0.75	.....	.....	.....	56344	"
.....	32.54	67.46	4.84	1.30	.....	.....	.....	56356	"
.....	32.14	67.86	4.80	1.28	.....	.....	.....	56359	"

J. E. AUDET, O. BROCHU, T. GENDREAU, N. CADIEUX, TEMPORARY INSPECTORS.

.....	32.20	67.80	2.10	0.89	.....	.....	.....	3829	Genuine
.....	29.55	70.45	3.64	0.81	.....	.....	.....	3831	"
.....	29.90	70.10	3.24	1.04	.....	.....	.....	3834	"
.....	29.88	70.11	3.24	1.04	.....	.....	.....	3844	"
.....	30.74	69.26	3.30	0.74	.....	.....	.....	3846	"
.....	31.39	68.61	3.36	1.02	.....	.....	.....	3852	"
.....	32.54	67.46	3.40	1.32	.....	.....	.....	3856	"
.....	32.88	67.11	3.46	0.80	.....	.....	.....	3859	"
.....	31.91	68.09	4.04	0.98	.....	.....	.....	3867	"
.....	33.88	66.11	4.04	1.04	.....	.....	.....	3874	"
.....	31.39	68.61	5.20	0.93	.....	.....	.....	3878	"
.....	33.00	67.00	3.94	1.09	.....	.....	.....	3884	"
.....	30.85	69.15	2.78	1.14	.....	.....	.....	3892	"
.....	34.49	65.51	3.81	1.16	.....	.....	.....	3900	"
.....	31.33	68.67	2.40	0.82	.....	.....	.....	3907	"
.....	33.51	66.49	3.48	1.22	.....	.....	.....	3917	"

7 GEORGE V, A. 1917

BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC PROVINCE—							
1915.							
April 24	Sirop d'érable.	268	Hormisdas Laborte, Ste. Jerome.	1 chopin.	15		
" 24	"	269	Evangeliste Lafrance, St. Canut Comte des deux Mont.	1 "	15		
" 27	"	271	Staniolas Desormeaux, Ste. Jerome.	1 "	15	Alp. Bastien.....	
" 28	"	272	Dr. Em. Fournier, Ste. Jerome.	1 "	....	Em. Mahaise..	
May 4	"	283	Roderie Fouchette, Ste. Agathe des Monts.	3 bot.	35	Raymond.....	
" 4	"	285	H. Monette, Ste. Aagthe des Monts.	1 chop	25	Esdiar Raymond, St. Jerome.	
" 20	"	56448	Hellam & Bros, Rimouski	1 "	15	F. H.....	
" 22	"	56449	Pierre Denyon, Rimouski.	1 "	25		Quebec Preserving.
" 22	"	56459	Damien & Cie, Rimouski	1 "	40	L. J. A. Dupius, St. Roch des Aulnais.	
June 1	"	56465	Louis Levasseur, Fraserville.	1 "	25	Maple Producers Assn., Montreal.	
" 2	"	56472	Francois Pelletier, Fraserville.	1 "	20	J. A. Lord, St. Roch des Aulnais.	
" 2	"	56477	H. J. Lyrois, Cacouna..	1 "	25	Ulric Talbot, L'Islet	
" 4	"	56479	L. J. A. Dupius, St. Roch	1 "	25	Vendor.....	
" 4	"	56480	Alp. Caron, St. Roch....	1 "	25	Alfred Jalbert, St. Louis.	
" 5	"	56481	Pamphile Pelletier, Ste. Perpetue.	1 "	25	Vendor.....	
" 11	"	56482	Rene & E. Morneau, Ste. Perpetue.	1 "	25	Vendors..	
May 17	"	2486	Jos. Guimond, Matane...	1 "	27		N. Rioux, Quebec.
" 17	"	2487	Jas. Forbes, Matane.....	1 "	30	Montreal Biscuit Co., Montreal.	
" 19	"	2495	A. F. Bontin, Mont Joli.	1 "	20	L. J. A. Dupius, Jr., St. Roch D'Aulnais	
" 19	"	2497	Wm. Michaud, Mont Joli.	1 "	18	Leo. Bernard, St. Chas. Bellechasse.	
DISTRICT OF THREE RIVERS—							
May 8	Maple Syrup.	67985	Paul Champagne, St. Jean Matha.	1 lb.	15	Vendor.....	
" 8	"	67986	Wilfred Roy, St. Jean Matha.	1 "	15	".....	
" 10	"	67987	Louis Desroches, St. Jean Matha.	1 "	15	".....	
" 11	"	67988	Narcisse Roberge, St. Felix de Valois.....	1 "	15	".....	

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MAPLE SYRUP

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to Water Free Basis.						
			Lead Number (Canadian.)	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Malic Acid Value.		
<i>Concluded.</i>									
	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	31.76	68.24	3.70	0.63	.....	.....	.....	268	Genuine.
Purchased at Ste. Jerome market.	31.16	68.84	3.56	1.06	.....	.....	.....	269	"
.....	31.41	68.59	1.94	0.83	.....	.....	.....	271	"
.....	31.31	68.69	2.96	0.92	.....	.....	.....	272	"
.....	36.16	63.82	2.06	1.02	.....	.....	.....	283	"
.....	33.79	66.21	2.44	0.86	.....	.....	.....	285	"
.....	34.07	65.93	2.58	0.90	.....	.....	.....	56448	"
.....	30.51	69.49	0.37	0.28	.....	.....	.....	56449	Adulterated. Manufacturer's claim, sold as Table syrup, not maple.
.....	33.13	66.87	2.90	1.14	.....	.....	.....	56459	Genuine.
.....	33.97	66.03	3.06	0.95	.....	.....	.....	56465	"
.....	33.13	66.87	4.06	1.06	.....	.....	.....	56472	"
.....	33.13	66.87	3.22	1.20	.....	.....	.....	56477	"
.....	35.17	64.83	3.46	1.28	.....	.....	.....	56479	"
.....	36.92	63.08	3.14	1.11	.....	.....	.....	56480	"
.....	35.17	64.83	3.46	0.90	.....	.....	.....	56481	"
.....	35.17	64.83	2.64	0.86	.....	.....	.....	56482	"
.....	31.63	68.27	3.00	1.02	.....	.....	.....	2486	"
.....	31.72	68.28	0.06	0.14	.....	.....	.....	2487	Adulterated. Manufacturers' claim, was sold as Syrup, not maple.
.....	32.67	67.33	4.00	1.30	.....	.....	.....	2495	Genuine.
.....	33.82	66.18	3.50	1.09	.....	.....	.....	2497	"

DR. V. P. LAVALLEE, INSPECTOR.

.....	30.63	69.37	3.08	0.92	.....	.....	.....	67982	Genuine.
.....	34.83	65.17	2.80	0.87	.....	.....	.....	67986	"
.....	31.18	68.82	2.04	0.83	.....	.....	.....	67987	"
.....	30.33	69.67	2.76	1.10	.....	.....	.....	67988	"

7 GEORGE V, A. 1917

BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS—

1915.							
May 11	Maple Syrup.	67989	Louis Boucher, Castel Hill	1 lb.	15	Vendor .....	.....
" 12	"	67990	Alexis Lepicier, Ste. Cecile.	1 "	15	" .....	.....
" 12	"	67991	Michel Lepicier, Ste. Cecile.	1 "	15	" .....	.....
" 14	"	67992	Veuve V. Ducharme, St. Cleophas des Brandon.	2 "	20	" .....	.....
" 14	"	67993	Edouard Joly, St. Cleophas des Brandon.	1 "	15	" .....	.....
" 18	"	4000	Joseph Belleville, Domain	1 "	25	" .....	.....

DISTRICT OF EASTERN TOWNSHIPS—

May 5	Maple Syrup.	58101	J. B. St. Pierre, St. Hyacinthe.	1 bot.	30	.....	.....
" 5	"	58102	Walter Jutras & Cie, St. Hyacinthe.	1 "	25	.....	.....
" 5	"	58103	L. Gendreau, St. Hyacinthe.	1 pint.	15	.....	.....
" 5	"	58104	J. Leduc, St. Hyacinthe.	1 "	15	J. Ducharme, Wil-	.....
" 10	"	58105	P. J. Girard, Richmond, P.Q.	1 "	13	low, P. Q.	.....
" 10	"	58106	A. M. Hutton, Richmond, P.Q.	1 "	15	E. Roger, Rich-	.....
" 10	"	58107	Gun & Elliott, Richmond, P.Q.	1 "	15	mond.	.....
" 11	"	58108	E. E. Biron, Sherbrooke.	1 bot.	20	J. Duclos, Dom. Mills	.....
" 11	"	58109	Herbert Fortin, Sherbrooke.	1 pint.	15	J. Lapointe, Compton, P. Q.	.....
" 11	"	58110	Alp. Lantot & Fils, Sherbrooke.	1 "	16	.....	.....
" 11	"	58111	Thériault & Leclerc, Sherbrooke.	1 "	17	.....	.....
" 11	"	58112	H. Lacroix, Sherbrooke.	1 "	16	R. Johnson, East-	.....
" 11	"	58113	Geo. F. Moore, Sherbrooke.	1 "	20	man, P.Q.	.....
" 12	"	58114	Woodman & McKee, Coaticook.	1 bot.	35	Walter Parker, Coaticook.	.....
" 12	"	58115	A. Vaillancourt, Coaticook.	1 pint.	16	J. Poulin, Compton, P.Q.	.....

DISTRICT OF MONTREAL—

May 7	Maple Syrup.	67151	D. Milard, 191 First Ave., Maisonneuve.	1½ pt.	27	P. Doré.....
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SESSIONAL PAPER No. 14

MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							Remarks and Opinion of the Chief Analyst.	
	Water.	Solids.	Calculated to Water Free Basis.						No. of Sample.
			Lead Number (Canadian.)	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Malic Acid Value.		

Concluded.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	36.33	63.67	3.62	1.05	.....	.....	.....	6798	Genuine.
.....	32.30	67.70	2.34	0.89	.....	.....	.....	67990	"
.....	30.33	69.67	2.40	0.81	.....	.....	.....	67991	"
.....	35.12	64.88	2.54	1.08	.....	.....	.....	67992	"
.....	37.62	62.38	5.16	1.44	.....	.....	.....	67993	"
.....	31.58	68.02	2.92	0.90	.....	.....	.....	4000	"

J. J. COSTIGAN, ACTING INSPECTOR

.....	32.60	67.40	2.85	0.88	.....	.....	.....	58101	Genuine.
.....	32.39	67.61	2.56	0.83	.....	.....	.....	58102	"
.....	35.39	64.61	3.40	1.05	.....	.....	.....	58103	"
.....	32.60	67.40	2.85	0.97	.....	.....	.....	58104	"
.....	32.39	67.61	4.30	1.06	.....	.....	.....	58105	"
.....	33.80	66.20	2.92	1.01	.....	.....	.....	58106	"
.....	31.61	68.36	2.98	1.02	.....	.....	.....	58107	"
.....	34.39	64.61	3.30	0.79	.....	.....	.....	58108	"
.....	36.45	63.55	4.42	1.35	.....	.....	.....	58109	"
.....	31.76	68.24	3.14	1.02	.....	.....	.....	58110	"
.....	32.45	67.55	2.40	1.18	.....	.....	.....	58111	"
.....	35.19	64.81	3.92	0.80	.....	.....	.....	58112	"
.....	31.55	68.45	5.36	1.10	.....	.....	.....	58113	"
.....	33.60	66.40	1.92	0.95	.....	.....	.....	58114	"
.....	32.45	67.55	2.48	0.83	58115	"

D. J. KEARNEY, INSPECTOR.

.....	31.98	68.02	2.00	0.74	62111	Genuine.
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7 GEORGE V, A. 1917

BULLETIN No 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
May	7	Maple Syrup.	67152 H. A. E. Morin, 121 St. Catherine St., Maisonneuve.	1 qt.	25	.....	A. Raymond & Co.
"	7	"	67153 L. P. Gates, 71 Notre Dame St., Maisonneuve.	1½ pt.	30	.....	Unknown.
"	14	"	67155 L. Archambault, 2850 Masson St. Parc, Mont La Salle, Montreal.	1½ "	24	.....	A. Raymond & Co.
"	14	"	67156 A. Desjardins, 2353 Bourbonnais St., Maisonneuve.	1½ "	15	.....	M. Bonhomme...
"	14	"	67157 Mont LaSalle Cash Grocery, 2753 Boule Rosemount, Montreal.	1½ "	18	.....	Unknown
"	15	"	67158 C. H. Fournier, 1127 Mt. Royal Ave. E., Montreal.	1½ "	20	.....	V. Brosseau
"	15	"	67159 R. Corbeil, 1081 Mt. Royal Ave. E., Montreal.	1½ "	27	.....	Em. Bastien ..
"	15	"	67160 Trudeau & Frere, 1036 Mt. Royal Ave. E., Montreal.	1½ "	27	.....	H. Pepin & Co....
"	15	"	67161 S. Jacques, 874 Mt. Royal Ave. E., Montreal.	1½ "	27	.....	M. Lavellee
"	17	"	67162 Choquette & Frere, 32 Craig St. E., Montreal..	1½ "	20	.....	N. Sirois.....
"	17	"	67163 P. H. Theoret, 21 Vitre St. E., Montreal.	1 qt.	35	.....	Unknown
"	17	"	67164 D. Kouri, 72 Lagauchetiere St. E., Montreal.	1½ pt.	30	.....	" .....
"	17	"	67165 S. Dionne, 140 Dorchester St. E., Montreal.	1½ "	30	.....	" .....
"	18	"	67126 Paquette & Co., 185 St. Paul St., Montreal.	1½ "	30	.....	" .....

DISTRICT OF VALLEYFIELD—

April	21	Maple Syrup.	57901 Joseph Miron, Hawkesbury.	1 pt.	15	Arthur Aubrey, Mont Oscar.	.....
"	21	"	57902 Laurin & Frere, Hawkesbury.	1 "	15	Eugene Cusson, Hawkesbury.	.....
"	22	"	57903 Graham & Hunter, St. Lambert.	1 bot.	35	A. W. Westover, Sutton Jct.	.....
"	22	"	57904 J. A. Tremblay & Cie, Lambert.	1 tin.	1.00	A. T. Stone, Glen Sutton.	.....
"	23	"	57905 W. R. Simpson, St. Johns.	1 bot.	25	A. V. Desrochers, North Stanbridge.	.....
"	27	"	57906 C. Hambault, Valleyfield.	1 "	25	Vendor.....	.....
"	27	"	57907 E. Bougie, Valleyfield....	1 pt.	15	J. Thibault, St. Antoine.	.....

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to water free basis.						
			Lead Number Canadian.	Total Ash.	Water Sol- uble Ash.	Insoluble Ash.	Malic Acid Value.		
<i>Concluded.</i>									
Purchased as com- pound.	p. c. 35.00	p. c. 65.00	0.10	p. c. 0.10	p. c.	p. c.	p. c.	67152	Illegal.
.....	30.00	70.00	3.36	0.78	.....	.....	.....	67153	Genuine.
Pure Maple and Cane Syrup.	33.26	66.74	0.13	0.06	.....	.....	.....	67155	Illegal.
.....	35.06	65.94	0.08	0.20	.....	.....	.....	67156	Vendor claims to have sold as syrup only.
Purchased as com- pound.	33.83	66.17	0.18	0.32	.....	.....	.....	67157	Illegal.
" "	34.13	65.87	0.04	0.14	.....	.....	.....	67158	"
.....	34.68	65.32	3.04	0.97	.....	.....	.....	67159	Genuine.
.....	32.97	67.03	2.40	0.87	.....	.....	.....	67160	"
.....	31.99	68.01	2.96	0.94	.....	.....	.....	67161	"
.....	34.82	65.18	0.09	0.18	.....	.....	.....	67162	Vendor claims to have sold as compound, and hence is illegal.
.....	32.38	67.62	3.50	0.91	.....	.....	.....	67163	Genuine.
.....	36.82	63.18	2.96	0.90	.....	.....	.....	67164	"
.....	32.38	67.62	3.36	0.87	.....	.....	.....	67165	"
.....	31.22	68.78	2.64	0.74	.....	.....	.....	67126	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	33.11	66.89	2.28	0.90	.....	.....	.....	57901	Genuine.
.....	36.18	63.82	5.38	1.03	.....	.....	.....	57902	"
.....	32.61	67.39	3.06	0.90	.....	.....	.....	57903	"
.....	33.71	66.29	4.60	0.89	.....	.....	.....	57904	"
.....	32.19	67.81	1.04	0.50	.....	.....	.....	57905	Adulterated. Manufacturer claims that he sold only pure syrup.
.....	38.89	61.11	2.44	0.90	.....	.....	.....	57906	Genuine, but some water passed.
.....	35.80	64	3.32	1.10	.....	.....	.....	57907	Genuine.

7 GEORGE V, A. 1917

BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1915.							
April 27	Maple Syrup.	57908	A. R. Biron, Valleyfield.	1 pt.	15	.....	.....
" 27	"	57909	W. J. McPherson, Valleyfield.	1 "	15	W. Watson.....	.....
" 27	"	57910	J. Z. Daoust, Valleyfield.	1 "	15	.....	.....
May 2	"	57911	A. Anderson, Herdman.	1 tin.	1 00	Nelson Forquhar, Herdman, P.Q.	.....
" 2	"	57912	Pringle, Stack & Co., Huntingdon.	1 "	1 25	Jos. Arthur, Rockburn, P.Q.	.....
" 3	"	57913	Chas. Lord, Longueuil.	1 pt.	18	.....	.....
" 3	"	57914	V. Dore, Longueuil.	1 "	20	J. Letebvre, St. Placide, P.Q.	.....
" 3	"	57915	L. H. Lamarre, Longueuil.	1 bot.	25	G. Gagnon, Lawrenceville.	.....

DISTRICT OF OTTAWA—

April 20	Maple Syrup.	63602	A. B. Scott Co., Smith's Falls.	1 pt.	15	M. Whitmore, Toledo, Ont.	.....
" 20	"	63606	Mrs. J. Sutherland, Perth.	1 "	20	Mr. Best, Elmsley, Ont.	.....
" 21	"	63612	A. V. McLean, Perth.	1 qt.	35	Sugars & Cannery, Ltd., Montreal.	.....
" 27	"	63624	Dempsey & Co., Renfrew.	1½ pt.	20	Muskoka Maple Syrup Co., Hamilton.	.....
" 27	"	63629	A. E. Leach, Renfrew.	1 bot.	30	Can. Maple Exchange Ltd., Montreal.	H. N. Bate & Sons, Ottawa.
" 27	"	63631	Stewarts, Ltd., Renfrew.	1 pt.	20	T. Kenny & Sons, Hallerton, P.Q.	.....
" 29	"	63633	Calderone & Bossio, Ottawa.	3 bots.	50	A. W. Westover, Sutton Junction.	.....
" 30	"	63634	J. Bambrick, Ottawa.	3 "	75	Garrett Safford, Sutton, P.Q.	.....
" 30	"	63641	Wall & Co., Ottawa.	1 "	35	Can. Maple Exchange Ltd., Montreal.	.....
May 4	"	63651	A. Stein, Albert St., Ottawa.	1 "	35	Maples Ltd., Toronto.	.....

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Inspector's Report. (Is not an Expression of opinion).	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst
	Water.	Solids.	Calculated to Water Free Basis.					
			Lead Number (Canadian).	Total Ash.	Water Soluble Ash.	Insoluble Ash.			Malic Acid Value.

Concluded.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	29.65	70.35	3.20	1.20	...	...	...	57908	Genuine.
.....	40.00	60.00	3.44	1.03	.....	.....	.....	57909	Genuine, but excess water; pass.
.....	35.35	64.65	3.10	0.93	.....	.....	.....	57910	Genuine.
.....	36.00	64.00	2.94	0.89	.....	.....	.....	57911	
.....	35.80	64.20	3.00	1.17	.....	.....	.....	57912	
.....	35.15	64.85	0.88	0.54	.....	.....	.....	57913	Adulterated.
.....	34.70	65.30	2.88	0.84	.....	.....	.....	57914	Genuine.
..	31.30	68.70	2.76	0.90	.....	.....	.....	57915	

J. A. RICKEY, INSPECTOR.

.....	34.31	65.69	4.62	1.11	.....	.....	.....	63602	Genuine.
.....	33.86	66.14	2.80	0.80	.....	.....	.....	63606	
Silver Sheaf Brand Pure Maple Syrup. Guaranteed absolutely pure.	40.00	60.00	1.84	0.96	..	.....	.....	63612	Genuine, but excess water; pass.
Sold as Maple Syrup, but invoiced to vendors as Muskoka Syrup.	33.41	66.59	0.52	0.35	.....	.....	.....	63624	Adulterated. Manufacturer claims not to sell as maple syrup.
Monument Brand Pure Maple Syrup.	32.91	67.09	1.39	0.63	0.22	0.11	0.50	63625	Adulterated.
.....	35.08	64.92	2.80	1.06	.....	.....	.....	63626	Genuine.
.....	35.53	64.47	2.70	0.92	.....	.....	.....	63627	
Guaranteed pure.	33.18	66.82	1.82	0.78	.....	.....	.....	63628	
Canada's Best Pure Maple Syrup.	32.83	67.17	1.92	0.92	.....	.....	.....	63634	
Old Fyme Pure Sap Maple Syrup guaranteed absolutely pure.	33.41	66.59	0.80	0.42	.....	.....	.....	63651	Adulterated.

7 GEORGE V, A. 1917

BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1915.							
April 24	Maple Syrup.	68001	W. Horning, Eginburg...	1 qt.	25	.....	.....
" 28	" ..	68002	Jno. M. Gordon, Kingston.	1 "	40	Can. Maple Exchange Ltd., Montreal.	.....
" 28	" ..	68003	J. A. Lemmon, Kingston.	1 "	35	.....	W. J. Crothers, Kingston.
" 28	" ..	68004	Harry Thompson, Kingston.	1 "	30	.....	Robertson & Nicolle, Kingston.
" 29	" ..	68005	J. Gilbert, Kingston.....	1 "	35	E. Day, Sydenham..	.....
" 29	" ..	68006	J. E. Purday, Kingston..	1 "	35	Unknown .....	.....
" 29	" ..	68007	Chas. Saunders, Kingston	1 "	35	Mr. Miller, Ernestown	.....
May 4	" ..	68008	Wallbridge & Clarke, Belleville.	1 "	45	C. A. Westover, Frelyhsburg, P. Q.	.....
" 4	" ..	68009	Win. H. Fox & Co., Cobourg.	1 "	40	Maple Tree Producers Ltd., Montreal.	.....
" 4	" ..	68010	E. Guillet, Cobourg	1 "	40	.....	Macdonald & Co., Lanark.

DISTRICT OF TORONTO—

May 11	Maple Syrup.	67019	H. Wright, Markham....	1 bot.	25	Maple Tree Producers Assn.	H. P. Echardt Co., Toronto.
" 12	"	67020	J. O. Bartlet, Uxbridge..	1 qt..	45	East Townships M. S. & S. Exchange Sutton, P. Q.	.....
" 13	"	67021	The Estate of F. McRae, Beaverton.	1 pt..	25	.....	G. B. Hall, Barnston, P. Q.
" 14	"	67022	T. B. Cramp, Orillia.....	1 "	25	Unknwn.....	.....
" 15	"	67023	G. Hager, Midland.....	1 "	20	.....	The McCormick Mfg. Co. London
" 20	"	67034	J. Pettigrew, 1372 Queen st. W., Toronto.	1 "	25	R. S. Trotter, Chanty	.....
" 20	"	67035	E. S. Bullock, 147 Roncesville ave., Toronto.	1 qt..	35	Ramsays Ltd, Montreal.	.....
" 20	"	67036	J. J. Cayle, 1867 Yonge street, Toronto.	1 pt..	23	Maples Ltd., Toronto.	.....
" 20	"	67037	S. G. Whaley, 2509 Yonge street, Toronto.	1 "	25	.....	Unknown.....
" 22	"	67038	The Loblaw Stores, 208 Christie street, Toronto.	1 Jar.	16	.....	G. B. Hall, Barnston, P. Q. . .

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Solids.	Lead Number Canadian.	Calculated to Water Free Basis.				
				Total Ash.	Water Soluble Ash.	Insoluble Ash.			Malic Acid Value.

JAMES HOGAN, INSPECTOR.

	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.		
Taken from tin on Kingston market.	30.96	69.04	2.16	1.04	.....	.....	.....	68001	Genuine.
.....	32.81	67.79	1.36	0.70	.....	.....	.....	68002	Adulterated.
.....	39.66	60.34	3.44	1.09	.....	.....	.....	68003	Genuine, but excess water; pass.
.....	36.26	63.74	3.38	1.25	.....	.....	.....	68004	Genuine.
.....	40.00	60.00	3.04	1.13	.....	.....	.....	68005	Genuine, but excess water; pass.
.....	34.71	65.29	3.76	1.19	.....	.....	.....	68006	Genuine.
.....	35.16	64.84	3.32	0.82	.....	.....	.....	68007	"
.....	33.82	66.17	2.92	0.98	.....	.....	.....	68008	"
.....	31.38	68.62	2.56	0.82	.....	.....	.....	68009	"
.....	35.63	64.37	3.30	0.85	.....	.....	.....	68010	"

H. J. DAGER, INSPECTOR

Pride of Canada Pure Maple Syrup.	33.89	66.11	3.28	1.02	.....	.....	.....	67019	Genuine.
Guaranteed pure on original package.	33.99	66.01	2.32	0.88	.....	.....	.....	67020	"
.....	34.07	65.93	4.44	1.31	.....	.....	.....	67021	"
.....	36.78	63.22	4.94	1.28	.....	.....	.....	67022	"
Open Kettle Brand Guaranteed Absolutely pure	35.06	64.94	1.05	0.64	0.41	0.23	0.16	67023	Adulterated.
.....	30.96	69.04	1.43	0.72	0.46	0.26	0.26	67034	"
Snowshoe Brand	36.78	63.22	1.96	0.78	.....	.....	.....	67035	Genuine.
Old Time	36.93	63.07	1.15	0.66	0.50	0.16	0.16	67036	Adulterated.
.....	32.73	67.27	2.54	0.74	.....	.....	.....	67037	Genuine.
.....	34.74	65.26	2.92	0.86	.....	.....	.....	67038	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1915.							
April 26	Maple Syrup.	66958	Bell Bros., Elora.....	1 pt.	25	.....	Unknown.....
" 27	"	66959	Ford Melvin, Palmerston.	1 "	25	Wm. Darvock, Palmerston.	.....
" 27	"	66960	T. H. Ellis & Co., Mount Forest.	1 1/2 "	35	James Robb, Mount Forest.	.....
" 28	"	66961	E. Walker, Harriston ..	1 "	25	East Townships, Maple Exchange, Sutton, P.Q.	.....
" 29	"	66962	Hunstein & Willick, Mildmay.	1 "	38	Unknown. ....	.....
" 29	"	66963	F. Carter & Son, Paisley..	1 ..	22	.....	McCormick Mfg., Co. London.
" 30	"	66964	Ross & Wormington, Chesley.	1 "	25	The Maple Tree Producers Assn. Ltd., Montreal.	.....
" 30	"	66965	A. W. McFaul, Owen Sound.	1 "	33	J. H. Gowan, Frankland Centre, P. Q.	.....
May 1	"	66966	R. D. Little, Owen Sound	1 qt.	35	Maples Ltd. Toronto	.....
" 4	"	66967	E. O. Taylor, Oakville. .	1 pt.	30	.....	Kelly & Bullock, Gananoque,

DISTRICT OF WINDSOR—

April 20	Maple Syrup.	54761	O. C. Whitney, Goderich.	3 jars.	35	J. McClarty .....	.....
" 20	"	54762	Dean Bros., Goderich ...	3 "	25	Bissett Bros., Salford.	.....
" 20	"	54763	John Spahr, Goderich....	3 "	40	Unknown .....	.....
" 20	"	54764	John Cutt, Goderich.....	3 "	25	R. Linklater.....	.....
" 20	"	54765	O. Neill & Co., Goderich.	3 "	45	J. R. Vargoe, Carleton Place, Ont.	.....
" 21	"	54768	H. Bartlett, Clinton.....	3 "	45	Unknown .....	.....
" 21	"	54770	W. T. O'Neill, Clinton..	3 "	20	W. W. Cooper, Kippen.	.....
" 21	"	54771	Johnson & Co., Clinton ..	3 "	.....	V. M. Deihl, Stanley Tp.	.....
" 21	"	54773	E. E. Hunniford, Clinton.	3 "	20	Jas. Mann.....	.....
" 21	"	54775	Thos. Daly, Seaforth....	3 "	20	Peter McKay, Tuckersmith.	.....

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to Water Free Basis.					
			Lead Number (Canadian.)	Total Ash.	Water Soluble Ash.	Insoluble Ash.			Malic Acid Value.

H. J. DAGER, ACTING INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	30.89	69.11	0.08	0.28	.....	.....	.....	66958	Adulterated.
.....	46.33	53.47	3.80	1.22	.....	.....	.....	66959	Genuine as to sugar, but great excess water, and on this account is adulterated.
.....	39.33	60.67	5.10	1.41	.....	.....	.....	66960	Genuine, but excess water; pass
Sample from can labelled pure.	32.99	67.01	1.60	0.74	0.40	0.34	0.19	66961	Doubtful.
.....	40.80	59.20	6.06	1.28	.....	.....	.....	66962	Genuine; but excess water; pass
.....	33.89	66.11	0.36	0.27	.....	.....	.....	66963	Adulterated.
Pride of Canada pure Maple Syrup.	33.98	66.02	3.20	0.92	.....	.....	.....	66964	Genuine
.....	34.88	65.12	2.26	0.92	.....	.....	.....	66965	"
Old Tyne Pure Sap Maple Syrup.	32.19	67.81	0.34	0.40	.....	.....	.....	66966	Adulterated.
.....	37.76	62.24	2.58	1.16	.....	.....	.....	66967	Genuine

JOHN TALBOT, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	30.96	69.04	3.40	1.15	.....	.....	.....	54761	Genuine.
.....	34.30	65.64	2.84	0.88	.....	.....	.....	54762	"
.....	32.46	67.54	2.94	0.84	.....	.....	.....	54763	"
.....	34.51	65.49	3.14	1.08	.....	.....	.....	54764	"
Labelled Pure Maple Syrup.	34.71	65.29	3.40	1.00	.....	.....	.....	54765	"
.....	37.76	62.24	4.02	1.06	.....	.....	.....	54768	"
.....	32.81	67.19	2.74	0.90	.....	.....	.....	54769	"
.....	38.00	62.00	4.84	1.09	.....	.....	.....	54771	"
.....	21.41	68.59	2.32	0.96	.....	.....	.....	54773	"
.....	32.61	67.39	2.70	0.83	.....	.....	.....	54775	"

7 GEORGE V, A. 1917
BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1915.							
April 26	Maple Syrup.	61252	A. S. Coyle, Sargent Ave., Winnipeg.	1 can.	90	Maple Tree Producers' Assn.	
" 26	"	61253	B. Aranson, Sargent Ave., Winnipeg.	1 qt.	50	" "	
" 26	"	61254	J. Yost, Sargent Ave., Winnipeg.	1 bot.	50	Can. Maple Exchange Ltd., Montreal.	Telfer Bros., Winnipeg.
" 27	"	61255	S. Myers, Ellice St., Winnipeg.	1 can.	50	Ramsays Ltd., Montreal.	
" 27	"	61256	E. Feir, Ellice St., Winnipeg.	1 bot.	50	Maple Tree Producers' Assn., Ltd.	
" 28	"	61257	The T. Eaton Co., Ltd., Winnipeg.	1 can.	85	James Davidson, Waterloo, P.Q.	
" 28	"	61258	Hudson's Bay Co., Winnipeg.	1 "	45	Ramsays, Ltd., Montreal.	
" 29	"	61259	W. J. Sutherland, Grosvenor and Stafford Sts., Winnipeg.	1 bot.	50		
" 29	"	61260	Hardy & Buchanan, Winnipeg.	1 qt.	50	James A. Grubb, West Shefford, P.Q.	
May 25	"	61261	Gallagher Bros., Elmwood P.O.	3 bots.	75		Jobin, Marin & Co., Winnipeg.

DISTRICT OF SASKATCHEWAN—

April 27	Maple Syrup.	66355	Bertins Ltd., Swift Current.	1 pt.	30	Maples Ltd., Toronto	Swift Current Grocery.
" 27	"	66356	W. W. Cooper Co., Swift Current.	1 "	50	Maple Tree Producers Assn., Montreal.	" "
" 28	"	66362	Thomas Brothers, Gull Lake.	1 "	20	Unknown	Campbell, Wilson & Strathdee, Regina.
May 3	"	66377	Kent & Brown Co., Moose Jaw.	1 "	30	Ramsay's Ltd., Montreal.	
" 4	"	66381	W. G. Dey, Pense	1 qt.	50	McCormick Mfg. Co., London.	Mfrs.
" 6	"	66388	S. B. Yerxa, Regina	1 pt.	25	Unknown	
" 10	"	66392	Curry Grocery, Moose Jaw.	1 qt.	50	Edmund J. Berry, Brome, P.Q.	Mfr.
" 10	"	66393	Innis Co., Moose Jaw	1 pt.	25	Garrett Stafford Co., Sutton, P.Q.	"

SESSIONAL PAPER No. 14

MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to Water Free Basis.					
			Lead Number (Canadian).	Total Ash.	Water Sol- uble Ash.	Insoluble Ash.			Malic Acid Value.

A. C. LARIVIÈRE, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
.....	34.11	65.89	3.00	0.93	.....	.....	.....	61252	Genuine.
.....	33.41	66.59	2.30	0.83	.....	.....	.....	61253	"
.....	34.76	65.24	2.06	0.74	.....	.....	.....	61254	"
.....	39.00	61.00	1.41	0.76	0.54	0.22	0.35	61255	Adulterated as to sugar and excess water.
.....	33.56	66.44	3.08	0.80	.....	.....	.....	61256	Genuine.
.....	31.41	68.59	1.92	0.82	.....	.....	.....	61257	"
.....	36.03	63.97	1.52	0.70	0.42	0.28	0.34	61258	Adulterated.
Pride of Canada ..	32.23	67.77	2.94	0.80	.....	.....	.....	61259	Genuine.
.....	33.06	66.94	0.92	0.71	0.52	0.14	0.25	61260	Adulterated. Manufacturer claim to have sold pure syrup
Old Tyme	34.80	65.20	1.75	.....	.....	.....	.....	61261	Meets legal requirement.

L. H. HALL, INSPECTOR.

Old Tyme	32.61	67.39	0.16	0.27	.....	.....	.....	66355	Adulterated.
.....	31.03	65.97	3.08	1.06	.....	.....	.....	66356	Genuine.
.....	32.46	67.54	0.49	0.44	.....	.....	.....	66360	Adulterated.
Snowshoe Brand ..	33.13	66.87	0.58	0.54	.....	.....	.....	66377	"
Open Kettle Brand	36.06	63.94	0.24	0.26	.....	.....	.....	66381	"
.....	42.03	57.97	1.84	0.83	66388	Genuine as to sugar, but adulterated by excess water.
.....	33.64	66.36	2.76	0.96	66392	Genuine.
.....	33.13	66.87	2.72	1.03	66393	"

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BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—

1915.							
April 30	Maple Syrup.	52120	Hallier & Aldridge, Edmonton.	1 tin	60	Maple Tree Producers Assn., Montreal.	
" 30	" ..	52121	Johnston Walker Ltd., Edmonton.	3 bots.	90	Maples Ltd., Toronto	
" 30	" ..	52122	Hudson's Bay Co., Edmonton.	1 tin	50	Maple Tree Producers Assn., Montreal.	
May 1	" ..	52123	I. H. Morris & Co., Edmonton.	1 bot.	55	Can. Maple Exchange	
" 18	" ..	52124	Hudson's Bay Co., Calgary	1 pt.	30	E. J. Berry, Brome, P.Q.	
" 18	" ..	52125	S. G. Freeze, Calgary...	1 bot.	35	Maple Tree Producers Assn., Montreal.	
" 20	" ..	52126	John Irwin Co., Calgary..	1 can	35	Sugar & Cannerns, Ltd., Montreal.	
" 21	" ..	52127	Pryce Jones (Canada) Ltd. Calgary.	1 bot.	35	Maples Ltd., Toronto	
June 17	" ..	52128	Geo. Kerr, Lethbridge....	1 "	65	Maple Tree Producers Assn., Montreal.	

DISTRICT OF ROCKY MOUNTAINS—

April 26	Maple Syrup.	61805	Trail Grocery, Trail.....	3 bots.	1.95	Can. Maple Exchange	
May 20	"	61811	Ira R. Manning, Cranbrook.	1 "	60	Sugars & Cannerns, Ltd., Montreal.	
" 20	"	61817	J. Manning, Cranbrook..	1 tin.	60	W. C. Strong, North Sutton, P.Q.	
" 20	"	61818	Cranbrook Trading Co., Cranbrook.	3 jars.	1.00	McCormick Mfg. Co., London.	
June 10	"	61830	A. Hobson, Revelstoke...	1 bot.	60	Maple's, Ltd., Toronto.	
" 10	"	61831	G. W. Bell, Revelstoke...	1 tin.	1.25	Sugar & Cannerns, Ltd., Montreal.	
" 10	"	61832	" " "	1 "	1.25		A. P. Slade & Co., Vancouver.
" 10	"	61837	L. C. Masson, Revelstoke	3 "	1.95	Kelly Confection. Co., Vancouver.	

DISTRICT OF VANCOUVER—

May 3	Maple Syrup.	55234	T. W. Turner, 890 Pender st., Vancouver.	1 tin.	50	Maple Tree Producers Assn., Montreal.	
" 3	"	55235	Almas Grocery, 444 Robson st., Vancouver.	1 bot.	40	Sugars & Cannerns, Ltd., Montreal.	
" 3	"	55236	J. A. Lowe, 1002 Seymour st., Vancouver.	1 "	25	Maple's, Ltd., Toronto.	

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MAPLE SYRUP.

Inspector's Report. (Is not an expres- sion of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to water free basis.						
			Lead Number Canadian.	Total Ash.	Water Soluble Ash.	Insoluble Ash.	Malic Acid Value.		

A. W. R. MARKLEY, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
Pride of Canada...	32.62	67.28	2.94	0.83	.....	.....	.....	52120	Genuine.
Old Tyme	35.17	64.83	1.04	0.47	.....	.....	.....	52121	Adulterated.
Pride of Canada..	34.32	65.68	2.58	0.88	.....	.....	.....	52122	Genuine.
.....	34.98	66.02	0.38	0.45	.....	.....	.....	52123	Adulterated.
.....	32.77	67.23	2.42	0.84	.....	.....	.....	52124	Genuine.
Pride of Canada..	28.82	71.18	3.14	0.90	.....	.....	.....	52125	"
Silver Sheaf	36.16	63.84	0.53	0.43	.....	.....	.....	52126	Adulterated.
.....	33.51	66.49	1.14	0.54	.....	.....	.....	52127	"
Pride of Canada...	32.22	67.78	3.30	1.07	.....	.....	.....	52128	Genuine.

THOS. PARKER, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
Small's	35.05	65.00	3.01	0.90	.....	.....	.....	61800	Genuine.
Silver Sheaf ..	36.96	63.04	1.64	0.84	0.66	0.15	0.17	61811	Maints legal pe-
.....	32.54	67.46	2.14	0.80	.....	.....	.....	61817	.....
Open Kettle	32.08	67.92	0.26	0.10	.....	.....	.....	61818	Adulterated.
Old Tyme	32.88	67.12	0.40	0.22	.....	.....	.....	61840	"
Silver Sheaf	33.07	66.93	0.42	0.40	.....	.....	.....	61841	"
.....	32.62	67.38	2.06	0.90	.....	.....	.....	61850	Genuine.
.....	33.92	66.08	2.06	0.79	.....	.....	.....	61857	"

E. J. MORGAN, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
Pride of Canada, Pure Maple Syrup	34.33	65.67	2.84	1.11	.....	.....	.....	70504	Genuine.
Silver Sheaf Brand, Pure Maple Syrup	36.00	64.00	2.00	0.98	.....	.....	.....	70505	"
Old Tyme, Pure Sap Maple Syrup	32.38	67.62	0.81	0.50	0.86	0.24	0.10	70506	Adulterated

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BULLETIN No. 325—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1915.							
May	4	Maple Syrup.	55237 A. & C. Grocery Co., 520 Granville st., Vancouver	1 tin.	50	Kelly Confection. Co., Ltd., Vancouver.	
"	4	"	55238 W. H. Walsh, Seymour and Davie sts., Vanc.	1 bot.	50	Can. Maple Exchange Ltd.	
"	4	"	55239 Flion, Ltd., 204 Carrall st., Vancouver.	3 jars.	40	St. Jacques, St. Her- mas, P.Q.	
"	7	"	55240 G. Boyd, 6th and Gran- ville sts., Vancouver.	1 bot.	30	East. Tps. M. S. & S. Exchange, Sut- ton, P.Q.	
"	10	"	55241 S. Pritchard, 950 Robson st., Vancouver.	3 jars.	30	Maple's, Ltd., Tor- onto.	
"	10	"	55242 Annandale Supply Co., Columbiast., New West- minster.	1 tin.	50	Kelly Confection. Co., Ltd., Vancouver.	
"	11	"	55243 Mount Pleasant Grocery, 2425 Main st., Vanc.	1 bot.	25	Maple's, Ltd., Tor- onto.	

DISTRICT OF VICTORIA—

May	27	Maple Syrup.	66711 Windsor Grocery, Ltd., 817 Govt. st., Victoria.	1 qt.	50	Maple's, Ltd., Tor- onto.	
"	28	"	66714 D. H. Ross & Co., 1317 Govt. st., Victoria.	1 " "	60	W. R. Horner, Gran- by, P.Q.	
"	31	"	66718 West End Grocery Co., Ltd., 1002 Govt. st., Victoria.	1 " "	50	Maple's, Ltd., Tor- onto.	
June	8	"	66723 Acton Bros., 1317 Dou- glas st., Victoria.	1 " "	50	Maple Tree Producers Assn., Montreal.	
"	8	"	66724 Erskine & Co., 861 John- son st., Victoria.	1 " "	55	Maple's, Ltd., Tor- onto.	
"	9	"	66728 H. O. Kirkham & Co., 741 Fort st., Victoria.	1 tin.	50	Kelly Confection. Co., Ltd., Vancouver.	
"	9	"	66729 Henry W. Driver, 856 Yates st., Victoria.	1 qt.	60	Maple Tree Producers Assn., Montreal.	
"	10	"	66732 Linden Grocery, Linden and May st., Victoria.	1 " "	50	Sugars & Cannery, Ltd., Montreal.	
"	10	"	66735 The Cook st. Grocery, 1023 Cook st., Victoria.	1 " "	50	Can. Maple Exchange Montreal.	
"	21	"	66757 H. O. Kirkham, 1109 Govt. st., Victoria.	1 " "	55	Kelly Confection. Co., Ltd., Vancouver.	

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MAPLE SYRUP.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Calculated to water free basis.					
			Lead Number (Canadian).	Total Ash.	Water Soluble Ash.	Insoluble Ash.			Malic Acid Value.

Concluded.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.		
Canadian Brand, Pure Maple Syrup	33.13	66.87	2.64	1.04	.....	.....	.....	55237	Genuine.
Small's Map. Syrup Guaranteed pure.	34.78	65.22	2.00	0.75	.....	.....	.....	55238	"
.....	35.90	64.10	2.54	0.99	.....	.....	.....	55239	"
Labelled guarante- ed pure.	33.43	66.57	2.20	1.10	.....	.....	.....	55240	"
.....	34.53	65.47	1.09	0.45	.....	.....	.....	55241	Adulterated.
Kelly's Pure Maple Syrup.	34.23	65.77	2.00	0.97	.....	.....	.....	55242	Genuine.
Old Tyme, Pure Sap Maple Syrup	35.43	64.57	2.80	0.70	.....	.....	.....	55243	"

D. O'SULLIVAN, INSPECTOR.

Old Tyme	36.41	63.59	0.84	0.47	.....	.....	.....	66711	Adulterated.
.....	33.86	66.14	2.94	1.04	.....	.....	.....	66714	Genuine.
.....	38.31	61.69	0.90	0.64	.....	.....	.....	66718	Adulterated.
Pride of Canada ..	33.86	66.14	3.34	0.74	.....	.....	.....	66723	Genuine.
.....	38.46	61.54	1.01	0.70	.....	.....	.....	66724	Adulterated.
Canadian.	33.41	66.59	2.46	0.74	.....	.....	.....	66728	Genuine.
Pride of Canada ..	32.41	67.59	3.08	0.85	.....	.....	.....	66729	"
Silver Sheaf	36.41	63.59	1.69	0.89	.....	.....	.....	66732	Meets legal re- quirements.
Small's Selected. .	32.61	67.39	2.04	0.75	.....	.....	.....	66735	Genuine.
Canadian Brand. .	34.41	65.59	2.52	1.03	.....	.....	.....	66737	"

APPENDIX Q.

BULLETIN No. 326—MALT EXTRACTS.

OTTAWA, 21st February, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon one hundred and fifty-two (152) samples purchased as Malt Extracts by our various Inspectors.

Malt Extract is not defined by the British Pharmacopœia. The British Pharmaceutical Codex of 1911 does, however, define Malt Extract (*Extractum Malti*) as follows:—

“A brown-yellow or light amber-coloured, thick, viscid liquid, having a faint, pleasant characteristic odour, a sweet, mucilaginous taste, and a distinct acid reaction. Its diastatic activity is destroyed at temperatures above 65°C Specific Gravity about 1.375. Soluble in all proportions in water, the solution being precipitated by strong alcohol. Malt Extract consists chiefly of maltose (50 per cent or more) and dextrin, with some dextrose, and should also contain a fair proportion of diastase.”

This account of the article may be regarded as descriptive rather than definitive.

Malt Extract is described to much the same effect, in the United States Pharmacopœia (Eighth revision, 1900). No constants as to density, diastatic value, sugar content, etc., are stated.

Liquid Extract of Malt; is not a pharmacopœal preparation. It is described in the B. P. Codex as prepared from Extract of Malt, alcohol and distilled water. 100 parts of the liquid extract contain about 7.5 parts of alcohol. The specific gravity should be about 1.2.

With regard to the action and uses of Malt Extract I quote the following from the B.P. Codex of 1911, p. 402.

“The medicinal value of malt extract depends upon the proportion of total solid nutritive carbohydrates it contains, and upon its diastatic action, the latter enabling it to convert the starchy constituents of food into soluble carbohydrates, chiefly maltose. But the diastase becomes inactive in an acid medium such as obtains in the stomach during digestion. The extract is given to children and adults for its nutritive properties. Many of the extracts on the market contain no diastase, the ferment having been destroyed during evaporation.”

Among other reasons for the present (the first) systematic inspection of Malt Extracts, was the question whether a number of preparations more or less closely resembling Malt Extract were to be regarded, for purposes of revenue, as Drugs or as Foods. Malt Extract is very frequently employed as a vehicle for the administration of drugs, such as Cod Liver Oil, Phosphates, Quinine, etc., and, of course, in such combinations it must be classified as a drug. When used *per se*, its main, if not its only claim to medicinal properties, is based upon its containing active diastase. In its sugar content it must be regarded as a food.

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Of one hundred and fifty-two (152) samples now reported, only sixteen (16) can be regarded as fulfilling in any satisfactory degree, the requirements of an Extract of Malt. These contain solids varying from about 70 to 80 per cent, and the solids in question are mainly malt sugar, dextrin and dextrose. The characteristic results of these sixteen (16) samples are summarized in the following table:—

TABLE A.
Malt Extracts.

No.	Solids.	Specific Gravity.	Diastatic Value.	Alcohol (Weight).
54053	71·30	1·330	0·7	6·10
52140	80·36	1·418	112·6	NIL.
54054	78·20	1·403	56·0	"
66051	77·80	1·395	56·0	"
56366	78·20	1·400	56·0	"
67327	81·00	1·423	90·0	"
63610	78·84	1·408	53·0	"
66745	81·60	1·427	111·0	"
52143	82·16	1·431	99·9	"
63611	73·70	1·317	15·0	3·88
52145	71·84	1·322	39·1	3·11
66741	70·80	1·321	54·8	3·25
61802	81·60	1·424	54·6	NIL.
55277	81·72	1·425	54·7	"
61833	81·96	1·429	13·4	"
66754	83·16	1·447	13·6	"

It should here be stated that five samples of medicated Malt Extracts, purchased in error by Mr. Inspector Beland are not inserted in the above table. These bear numbers 56368 to 56372 inclusive.

Liquid Extract of Malt, is prepared as follows; under directions given in the B. P. Codex of 1911—(page 1180):—

Extract of Malt, by volume	67·50 parts.
Alcohol	7·50
Distilled water to make	100 "

The specific gravity should be about 1·2. Two alternative methods are given for preparation of Liquid Malt Extract. One from an aqueous infusion of malt, when the specific gravity of the resulting extract should be about 1·275; the other by percolation of the malt, in coarse powder, with alcohol diluted with three times its volume of water, until the percolate weighs three-fourths the weight of the malt used.

In order to obtain certain constants for Liquid Malt Extract, as described in the B. P. Codex, two samples were prepared in the laboratories, from samples of Malt Extract numbered 63610 and 67327.

No. 63610 is a Kepler Extract, made by the Burroughs, Wellcome Co.; has specific gravity 1·408; contains 78·84 per cent solids; has a diastatic value of 53 degrees Lintner, and is free from alcohol.

No. 67327 is also a Kepler Extract, manufactured by Burroughs, Wellcome Co. It has specific gravity 1·423, contains 81·00 per cent total solids; has diastatic value 90° Lintner and is free from alcohol.

The Liquid Extracts were prepared strictly according to the directions of the B. P. Codex as above and gave following results:—

	Liquid Extracts of Malt from 63610 From 67327	
Specific gravity	1·288	1·286
Alcohol (volume per cent)	6·75	6·75
Specific gravity of extract (alcohol-free)	1·292	1·290
Extractive (calculated)	82·2	84·7

An examination of the analytical results found for 128 samples purchased as Malt Extract or as Liquid Malt Extract and comprising all the samples of this collection, except 16 which are reported in Table A, shows that only three samples can be regarded as Liquid Malt Extracts, in the sense of the B. P. Codex. The three samples in question bear the numbers 66050, 63655 and 52144, and give the following results:—

TABLE B.

Liquid Malt Extract.

No.	Solids.	Specific Gravity.	Diastatic Value.	Alcohol (Weight).
66050	55.50	1.250	25.6	8.22
63655	58.51	1.245	20.0	9.43
52144	58.44	1.243	9.2	8.60
Samples Prepared in Laboratory from—				
63610	53.20	1.260	....	5.37
67327	54.70	1.263	....	5.57

The present report deals with 152 samples, which may be classified as follows:—

Genuine Extract of Malt	16 samples.
Genuine Liquid Extract of Malt	3 "
Medicated Extract of Malt	5 "
Beverages sold as Malt Extract	128 "

Total	152 samples.
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Of the 128 samples which cannot be classed either as Malt Extract, or as Liquid Extract, the following may be said:—

1. They usually contain alcohol; the amount of which, stated as proof spirit, varies from about 4 per cent to about 12 per cent.

2. Extractive matter varies from about 5 to about 12 per cent—only 14 samples showing as much as 13 per cent.

3. Ordinary Ale (or beer) is required to contain at least 3.5 per cent solids, and an examination of published results (See I. R. Bulletins No. 52, 196 and 283) shows that the solids in Canadian made Ales, of good quality usually range from 4 to 6 per cent while alcohol (expressed as proof spirit) varies from about 7 to about 10 per cent.

4. None of these samples possess any diastatic value; consequently, in this respect, they do not differ from ordinary Beer or Ale.

In order to facilitate comparison between the so-called Malt Extracts of the class now under consideration, and ordinary Ales or Beers, the following table has been prepared.

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TABLE C.

Brand.	Number Samples Examined.	Alcohol as Proof Spirit.	Solids.
1. Malt Nutritive.. . . .	5	2'94	15'67 tonic.
2. Dr. Kilborn's.. . . .	1	7'36	6'19 beer.
3. B. A. Brewery.. . . .	1	5'61	10'67 tonic.
4. Crema Malt.. . . .	2	10'88	2'64 beer.
5. Carling's.. . . .	20	7'09	6'14 beer.
6. Maltovin.. . . .	7	5'33	12'44 tonic.
7. Diamond.. . . .	1	7'49	6'93 beer.
8. Goebel.. . . .	2	2'68	12'74 tonic.
9. Hoffman.. . . .	1	9'18	5'35 beer.
10. Prima Tonic.. . . .	1	10'26	5'48 beer.
11. Blue Ribbon.. . . .	2	9'78	8'51 beer.
12. Malta Labattine.. . . .	1	10'81	5'48 beer.
13. Diastatic.. . . .	9	7'36	10'28 tonic.
14. M. Bole.. . . .	1	7'87	9'00 beer.
15. Miller's.. . . .	3	10'51	9'63 tonic.
16. Dow's.. . . .	3	8'00	11'57 tonic.
17. Oregon.. . . .	1	8'00	11'48 tonic.
18. O'Keefe's.. . . .	5	11'40	9'27 beer.
19. Pabst.. . . .	16	7'66	11'19 tonic.
20. Salvador.. . . .	7	7'65	5'30 beer.
21. Dr. Charles.. . . .	1	5'98	10'72 tonic.
22. Hofman.. . . .	1	8'00	5'04 beer.
23. Schlitz.. . . .	2	7'93	9'11 beer.
24. Silver Springs.. . . .	3	8'42	4'76 beer.
25. Sleeman's Springs.. . . .	3	7'95	12'31 tonic.
26. Walkerville.. . . .	2	11'63	6'39 beer.
27. Wyeths.. . . .	26	4'81	12'83 tonic.

These samples apparently represent 27 different brands; and I have already pointed out that none of them meet requirements for Liquid Malt Extract, under which name most of them are sold.

In several cases it would appear that the manufacturer has sought to produce a beverage somewhat more nutritious than ordinary beer; while in most cases the article does not essentially differ from a strong ale.

If we draw the line between an ordinary commercial ale, and a special ale, claiming tonic or nutritive qualities above ordinary ale, where may the line be drawn? This is, of course, a question which can only be acceptably answered after consultation with all parties interested in the matter.

I have ventured, to suggest that unless at least 10 per cent of nutritive solids remain in the product, it has no claim to be recognized as a special or tonic beverage. Many ordinary ales contain from 5 to 6 per cent of nutritive solids; and it would seem reasonable to require at least double of this amount to constitute a malt beverage, claiming any medicinal or tonic value.

On the above assumption, I find that 15 out of 27 brands named in Table C—should be sold as ale or beer; and should be placed on the market under the same conditions as ale or beer.

This conclusion has at present, no legal recognition, but I would respectfully ask for it the careful consideration of this department.

I would further suggest publication of this report as Bulletin No. 326.

I have the honour to be, sir,

Your Obedient Servant,

A. McGUIRE,

Chief Analyst.

BULLETIN No. 326—TABLE I, PART I.—MALT EXTRACTS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.								
1915.								
June 18	Malt Extract..	54051	National Drug and Chem. Co., Halifax.	3 bts.	55	Carling B. and M. Co., London, Ont.	.....	Malt Extract. Low diastatic values and somewhat low solids.
" 23	" "	54052	John Tobin & Co., Halifax.	3 "	80	Pabst Brew. Co., Milwaukee.	.....
" 30	" "	54053	B. F. Trask, Yarmouth.....	1 bot.	1 00	Parke, Davis Co., Walker, Minn.	.....
July 9	" "	54054	Taylor Drug Co., Bridge water.	1 "	25	Burroughs, Wellcome Co., London, Eng.	.....
DISTRICT OF PRINCE EDWARD ISLAND—WM. WEEKS, INSPECTOR.								
May 7	Malt Extract..	60190	E. A. Foster, Charlottetown.	3 bts.	43	Reinhardt, Salvador Brewery Co., Toronto.	.....	Malt Extract. Genuine.
" 7	" "	60191	" "	3 "	96	Pabst Brewery Co., Milwaukee.	.....
" 7	" "	60192	C. D. Rankin, Charlotte town.	3 "	78	Carling B. and M. Co., London, Ont.	.....
" 10	" "	60193	George E. Hughes, Charlottetown.	3 "	1 11	John Wyeth & Bros., Philadelphia.	

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DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

May 10	Malt Extract.	66046	National Drug and Chem. Co., St. John.	3	3	90	Pabst, Milwaukee.				
" 13	"	66047	Cerneau & Sheehan, St. John.	3	"	1 05	Anheuser, Bisch Brew. Assn., St. Louis.				
" 17	"	66048	National Drug and Chem. Co., St. John.	3	"	90	Carling Brew. Co., London, Ont.				
" 17	"	66049	"	3	"	1 05	Wyeth's				
" 20	"	66050	R. T. Mack, Fredericton.	3	"	2 25	Allen & Hanbury, Ltd., London, Eng.			Byrin	
" 28	"	66051	C. A. McKen, Woodstock.	3	"	2 34	Burroughs, Wellcome Co., London, Eng.				
June 17	"	66052	C. O. Stevens, Moncton.	3	"	75	Lyman's, Ltd., Montreal.				Malt Extract liquid. Genuine.
" 19	"	66053	National Drug and Chem. Co., St. John.	3	"	75	Silver Spring Brewery, Sherbrooke.				Malt Extract. Genuine.

DISTRICT OF QUEBEC CITY—F. X. W. E. BELAND, INSPECTOR.

April 20	Extract Malt.	56017	Riz Turcotte, 74 Quebec.	3	3	75	Pabst Brew. Co.				
20	"	56018	"	"	3	54	Silver Spring Brewery.				
21	"	56019	Myrant Poulet, Quebec	3	"	60	Miller & Co.	Laporte, Martin.			
21	"	56020	A. Grenier, 94 St. Jean, Quebec.	3	"	75	C. J. Oregan, Quebec.	Mfr.			
22	"	56021	Jac. Maquin, sis St. Valer, Quebec	3	"	75	John Wyeth & Sons, Philadelphia.	L. E. Martel			
23	"	56022	"	"	3	75	Carling	National Drug			
24	"	56023	J. B. Gauthier, 387 St. Joseph, Quebec.	3	"	3 00	Burroughs, Wellcome.	Mfr.		Malt Extract. Genuine.	
24	"	56024	"	"	3	3 90	"	"		"	Medicated.
25	"	56025	"	"	3	3 00	"	"		"	"
26	"	56026	J. B. Gauthier, 387 St. Joseph, Quebec.	3	"	2 70	Burroughs Wellcome Co.	Mfr.		Malt Extract. Medicated.	
26	"	56027	"	"	3	"	"	"		"	"
27	"	56028	"	"	3	90	"	"		"	"

BULLETIN No 326—TABLE 1, PART 1.—MALT EXTRACTS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF QUEBEC PROVINCE—N. CADIEUX, A. PELLETTIER, TEMPORARY INSPECTORS.									
1915.									
April 28	Extrait de Malt	273	J. N. Desjardins, St. Jérôme	3 bots.	1.11	John Wyeth & Bros., Montreal.			
May 4	"	281	F. D. Hall, Ste. Agathe des Monts.	3 "	96	Carling			
" 4	"	287	Dr. Ed. Grignon, Ste Agathe des Monts.	3 "	78	Lynnan's, Ltd.			
" 22	Malt Extract.	56457	Fraserville Drug Co., Fraserville.	3 "	75		Lynnan's, Ltd., Montreal.		
" 22	"	56463	Ed. Cloutier, Fraserville	3 "	90	The Carling Co., London, Ont.			
June 1	"	56467	John Kaine, Fraserville.	3 "	1.05	John Wyeth, Philadelphia.			

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLEE, INSPECTOR.									
May 1	Malt Extract.	67952	Camille Barrett, Joliette	3 bots.	75	Wyeth Bros., Philadelphia.	Lyman's, Montreal.		
" 4	"	67959	J. T. Gaudet, Joliette.	3 "	75	Davis & Lawrence.			
" 5	"	67960	A. L. Boucher, Joliette.	3 "	90	Pabst Brew. Co., Milwaukee.	Lyman Knox, Montreal.		
" 6	"	67961	C. L. Rivest, Joliette.	3 "	75	Lyman's Ltd., Montreal.			
" 5	"	67962	J. O. Davinault, Berthierville.	3 "	90	Wyeth Bros., Philadelphia.	Lyman's, Montreal.		

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67896	L. P. Crepeau, Joliette	3 "	75	"	"	"	"	"
67897	William Perrault, Joliette	3 "	75	"	"	"	"	"
68100	R. W. Williams, Three Rivers	3 "	90	Lyman's, Ltd., Montreal				
68108	D. Carignan Fils, Three Rivers	3 "	75	Wyeth Bros., Philadelphia			Lyman's, Montreal	
68113	J. A. Boivert, Joliette	3 "	80	"	"	"	"	"

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR

April 28	Malt Extract.	67316	Dr. Miller, 1800 Masson St., 3 beds, Rosemont.	78	National Breweries, Ltd.			Dow's	
"	"	67417	J. E. Morn, 927 Mt. Royal Ave., E., Montreal.	70	"	Nat. Drug Co.		Carling's	
"	"	67318	N. Cleroux, 738 Mt. Royal Ave., E., Montreal.	75	John Wyeth & Bros.			Wyeth's	
"	"	67319	A. Lalonde, 586 Mt. Royal Ave., E., Montreal.	78	Fabst Brewing Co.			Fabst	
"	"	67320	Outremont Pharmacy, 1195 St. Bernard St., Outremont.	75	Lyman's, Ltd.			Lyman's	
"	"	67321	Martineau's Drug Store, 1068 St. Denis St., Montreal.	75	Co. Medicale St. Charles			St. Charles'	
"	"	67322	"	75	"			Holman's	
"	"	67323	H. Robert, 1185 St. Denis St., Montreal.	78	Fred Miller Brew. Co.			Miller's	
"	"	67324	P. R. Thomas, 384 Bleury St., Montreal.	78	Reinhardt Salvador, Brewing Co.			Hofbrau	
"	"	67325	Fraser Vigor & Co., Montreal.	90	Anheuser Bush			Malt Nitroine	
"	"	67326	P. R. Thomas, 384 Bleury St., Montreal.	111	O'Keefe's Brew. Co.			O'Keefe's	
"	"	67327	McGough's Willamette Co., 384 Bleury St., Montreal.	130	Vendome			Kopler	
									Malt Extract. Genuine.

DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

May 31	Malt Extract.	68140	D. W. Hanson, Sherbrooke	3 beds	66	Davis Lawrence Co., Montreal.		Maltovin	
"	"	68141	"	3 "	46	Silver Springs Brewery, Sherbrooke.		Silver Spring	

BULLETIN No. 326—TABLE I, PART I—MALT EXTRACTS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF EASTERN TOWNSHIP—Concluded.									
1915									
May 11	Malt Extract..	58148	A. E. DuBois, Sherbrooke.	3 bts.	1 '65	John Wyeth Bros.....		Wyeth's.....	
" 11	"	58149	" " "	3 "	75	Pabst Brew. Co., Milwaukee.		Pabst.....	
" 12	"	58150	B. N. Robinson, Coaticook.	3 "	78	Carling B. & M. Co., Montreal.		Carling's.....	
" 12	"	58151	E. C. Drolet, Coaticook.....	3 "	75	Lynna's Ltd., Montreal.		Diastase.....	
" 25	"	58152	G. Richard, Sherbrooke.....	3 "	75			Dow's.....	
" 31	"	58153	Pharmacie Viger, St. Hyacinthe.	3 "	75	Lyman's Ltd.			

DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.									
June 15	Malt Extract..	49972	Tourangeau & Champagne, Buckingham.	3 bts.	90			Pabst.....	
" 15	"	49973	J. Duval.....	"	90			Wyeth's.....	
" 23	"	57944	P. P. Sabourin, St. Johns....	"	78			Maltovin.....	
" 23	"	57945	Wight & Co.....	"	75			Dow's.....	
" 24	"	57947	Dr. Gauthier, Valleyfield....	"	75	Independent Brew. Assn. Chicago.		Prima Tonic.....	

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DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

April 21	Malt Extract.	63609	W. S. Robertson, Perth.	3 bats.	96 John Wyeth Bros., Montreal.	Malt Extract Genuine.
21	"	63610	"	"	2 04 Burroughs Wellcome, Montreal.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
21	"	63611	Fred. A. Girdwood "	"	3 12 Maline Mfg. Co., Toronto.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
May 2	"	63644	Nat. Drug and Chem. Co., Ottawa.	"	34 Reinhardt Salvador Brew. Ltd., Toronto.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
3	"	63645	"	"	53 Carling B. & M. Co., London.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
3	"	63646	"	"	72 Palat Brew. Co., Milwaukee.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
3	"	63647	P. D. Acoust & Cie, Hull.	"	57 Fred. Miller Brew. Co., Milwaukee.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
4	"	63654	E. J. Durocher, Ottawa.	"	1 00 Anheuser Busch Brew., Assn., St. Louis.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.
4	"	63655	D. J. Stalker, Ottawa.	"	1 89 Allen & Hanbury, Toronto.	.....	.....	.....	Malt Extract Diastatic value low, otherwise genuine.

DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

April 28	Malt Extract.	68046	C. P. Phouse, Kingston.	3 bats.	75 Carling, London.	.....	.....	.....
28	"	68047	T. H. Sargent, Kingston.	"	75 Patist Brew. Co., Milwaukee.	.....	.....	.....
28	"	68048	A. P. Chown, Kingston.	"	1 05 John Wyeth Bros., Montreal.	.....	.....	.....
28	"	68049	Wm. A. Mahood, Kingston.	"	43 Reinhardt Salvador Brew. Ltd., Toronto.	.....	.....	.....
May 4	"	68050	D. G. Blascher, Belleville.	"	1 05 Davis & Lawrence Co., Montreal.	.....	.....	.....
5	"	68051	McDermid & Jury, Peterborough.	"	75 O'Keefe, Toronto.	.....	.....	.....

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

May 12	Malt Extract.	67900	T. C. Nathan, Uxbridge...	3 bats.	48 Reinhardt Salvador Brew. Ltd., Toronto.	.....	Hofman
" 13	"	67901	W. S. Short, Port Perry.	"	60 Palat Brew. Co., Milwaukee.	.....	Pabst.....
" 14	"	67902	F. M. Hafler, Orillia.....	"	78 Sleeman & Son, Guelph.	.....	.....

BULLETIN No. 326—TABLE I, PART I.—MALT EXTRACTS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report's. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			

DISTRICT OF TORONTO—Concluded.								
1915.								
May 15	Malt Extract.	67063	G. A. Ramsden, Midland	3 bbls.	78	Carling B. & M. Co., London.	.....	.....
" 19	"	67064	(Geo. Marshall, 137 Wilton Ave., Toronto.	"	47	Walkerville Brew. Co., Ltd., Walkerville.	.....	.....
" 19	"	67065	The J. A. Lannon Drug Store, Jarvis & Queen, Tor- onto.	"	43	Berlin Lion Brewery, Berlin.	.....	Dr. Kibbons....
" 19	"	67066	F. S. Taylor, 292 Spadina Ave., Toronto.	"	78	O'Keefe Brew. Co., Tor- onto.	.....	O'Keefe's.....
" 20	"	67067	R. H. Thompson, 1470 Yonge St., Toronto.	"	78	Goedel Brew. Co., De- troit.	.....	.....
" 21	"	67068	A. J. McCall & Co., Queen and Church sts., Toronto.	"	78	Lynnan's Ltd., Montreal.	.....	Diatic.....
" 21	"	67077	The Robt. Simpson Co., Ltd., Yonge and Queen Sts., Tor- onto.	"	78	Lynnan Bros. & Co., Ltd., Toronto.	.....	Wyeth's.....

DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.								
April 26	Malt Extract.	66394	R. Phillips & Son, Fergus . . .	3 bbls.	75	Carling B. & M. Co., London.	.....	.....
" 29	"	66395	P. B. Moore, Paisley	3 "	78	.....	.....	Pabst.....
" 30	"	66396	D. A. Cameron & Co., Owen Sound.	3 "	78	.....	.....	Nat. Drug & Chem. Co., Toronto.

May	1	Malt Extract	66997	H. E. Middleboro, Owen 3 Bots.	78	Sleeman & Sons, Guelph.		
	4	"	66998	T. A. La Patrouille, Burlington 3 "	45	Reinhardt-Salvador Brew Co., Toronto.	Hofbrau	
	5	"	66999	J. W. Gerrie, 32 $\frac{1}{2}$ James st. 3 "	78	"	O'Keefe's	
	6	"	67000	Parke & Parke, Market 3 "	78	Grant Spring Brew. Co., Hamilton.	Diamond Mfg. for vendor.	
	7	"	67001	Nat. Drug & Chem. Co., 3 "	45	J. Labatt & Co., London.	Blue Ribbon.	
	8	"	67002	Parke & Parke, Market 3 "	96	John Wyeth & Bros., Philadelphia.	Wyeth's	

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

April 21	Malt Extract	54772	W. R. Holmes, Clinton	31-65	90	O'Keefe's, Toronto	O'Keefe's
"	"	54782	Alex. Wilson, Seaforth	3 "	1 05	John Wyeth & Bros., Montreal	"
"	"	54784	Chas. Aberhart, Seaforth	3 "	75	Carling B. & M. Co., London	"
"	"	54790	C. Cunningham, St. Mary's	3 "	45	John Labatt, London	Malto Labattine
"	"	54793	Standard Drug Co., London	3 "	45	Reinhardt Salvador Brew Co., Toronto	Hoffman
"	"	54796	T. N. Sumner, London	3 "	45	Walkerville Brew. Co., Walkerville	"
"	"	54798	W. T. Strong, London	3 "	75	Pabst Brew. Co., Milwaukee	Pabst
"	"	54813	D. Donaldson, Sarnia	3 "	40	Bret. Amor. Brew. Co., Windsor	"
May 4	"	54819	J. M. Robie, Petrolia	3 "	78	Sleequan & Sons, Guelph	"

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

April 20	Mar 1	Extract.	61291	Windsley Drug Store, Sargent St., Winnipeg	3	78	Nat. Drug & Chem. Co., Hamilton.
-	27	-	61292	J. B. Robinson, Fellow St., Winnipeg.	3	111	John Weyeth Bros., Mon- real.
May 11	-	-	61293	P. F. Ward, Portage ave., Winnipeg	3	78	Carling, London
-	28	-	61294	Winnipeg Smith's Drug Store, Souris	3	156	Martin, Bole, Wynne Co., Winnipeg.
-	28	-	61295	MacIsaac & Burnett, Souris	3	106	Davis & Lawrence, Mon- real.

BULLETIN No. 326—TABLE I, PART I.—MALT EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF SASKATCHEWAN—L. H. HALL, INSPECTOR.									
1915.									
April 27	Malt Extract.	66358	Rooney's Pharmacy, Swift Current.	3 bots.	1.20	John Wyeth & Bro., Philadelphia.	Nat. D. & C. Co.,	.....	.....
" 28	"	66361	C. H. Morrison, Gull Lake.	3 "	1.10	Carling B. & M. Co., London.	.....	.....	.....
May 1	"	66374	L. C. Gilhmour, Moose Jaw.	3 "	1.06	Lyman's Ltd., Montreal.	.....	.....	.....

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.									
April 30	Malt Extract.	52140	G. H. Graydon, Edmonton.	3 bots.	3.00	Parke, Davis Co., Wal- terville.	.....	.....	Malt Extract genuine.
" 30	"	52141	" " "	3 "	1.20	Palst, Milwaukee.	.....	.....	.....
" 30	"	52142	" " "	3 "	1.20	John Wyeth & Bro., Mon- treal.	.....	Wyeth's.	.....
" 30	"	52143	Findley Drug Co., Calgary.	3 "	2.25	Barron's Wallace Mon- treal.	.....	Kepler.	Malt Extract genuine.
May 18	"	52144	McDermid Drug Co., Calgary.	3 "	1.50	Allen & Hanbury, Lon- don, Eng.	.....	Bynlin.	Malt Extract Liquid gen- uine.
" 18	"	52145	" " "	3 "	3.45	Maltine Mfg. Co., To- ronto.	.....	Maltine.	Malt Extract genuine.
" 21	"	52153	Nat. Drug & Chem. Co., Calgary.	3 "	55	Carling B. & M. Co., London.
June 15	"	52183	P. W. McNabb, Brooks.	3 "	1.05	" "	Carling's.

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DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

April 26	Malt Extract	61801	E. W. Hazewood, Trail,	3 bds.	1 05	Carling B. & M. Co., London, Ont.	Malt Extract, genuine.
" 26	"	61802	" " " " " "	3 "	1 50	National Drug & Chemical Co., Vancouver	.....	.....	.....	"
May 26	"	61819	Cranbrook Drug Co., Cranbrook,	3 "	1 00	Davis & Lawrence, Montreal.	.....	.....	.....	"
" 26	"	61823	Beattie Murphy Co., Cranbrook,	3 "	1 50	John Wyeth & Bros., Montreal.	.....	.....	.....	"
June 16	"	61826	W. Bews, Revelstoke,	3 "	3 10	Lorimer & Co., London, England.	.....	.....	.....	Malt Extract. Disastrous value. Low, otherwise genuine.
" 16	"	61826	" " " " " "	3 "	1 10	.....	.....	J. A. Teepoorten & Co., Vancouver.	.....	Cremo Malt.....

DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.

May 26	Malt Extract	56276	H. Rival, Columbia St., New Westminster.	3 bds.	1 00	Carling, London.	.....	.....	.....	Malt Extract, genuine.
" 26	"	56277	D. S. Curtis & Co., Columbia St., New Westminster.	3 jars.	1 00	National Drug & Chemical Co., Vancouver.	.....	.....	.....	"
" 26	"	56278	M. Lennan's Drug Store, Columbia St., New Westminster.	3 bds.	1 00	Unknown	.....	.....	.....	Sold as Cremo Malt.
" 27	"	56279	Owl Drug Co., Dunsinclair and Greenville Sts., Vancouver.	3 "	1 00	John Wyeth & Bros., Montreal.	.....	.....	.....	"
" 27	"	56280	Georgia Pharmacy, George and Granville Sts., Vancouver.	3 "	1 00	Pabst Brewing Co., Milwaukee, Wis.	.....	.....	.....	"
" 27	"	56281	Hudson Bay Co., Granville St., Vancouver.	3 "	75	John Schlitz Brewing Co., Milwaukee.	.....	.....	.....	Schlitz's Malt Tonic.
" 28	"	56282	W. M. Harman & Co., 14th, 19 Hastings St. W., Vancouver.	3 "	1 00	Davis & Lawrence Co., Montreal.	.....	.....	.....	Maltosin.....
" 28	"	56283	" " " " " "	3 "	1 00	Carl Hoffman, Hamburg, Germany.	.....	.....	.....	"
" 28	"	56284	Windward Dept. Stores, Hastings St., Vancouver.	3 "	1 00	Anheuser Busch Brewing Assn., St. Louis.	.....	.....	.....	Malt Mixture...

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

May 26	Malt Extract	66737	Windward Brewery Co., 217, Grand St., Vancouver.	3 bds.	1 00	Pabst Brewing Co., Milwaukee.	Pabst.....
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BULLETIN No. 326—TABLE I, PART I.—MALT EXTRACTS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF VICTORIA—Concluded.									
1915.									
June 11	Malt Extract.	66741	F. J. Williams, 613 Fort St., Victoria.	1 bot.,	1 25	R. L. Gibson, Toronto.		Maltine	Malt Extract, genuine.
" 14	"	66745	Terry's Drug Store, 706 Fort St., Victoria.	1 "	75	Burroughs Wellcome London, Eng.		Kepler	Malt Extract, genuine.
" 14	"	66747	Hall & Co., 702 Yates St., Vancouver.	3 pts.	1 00	Carling B. & M. Co. Lon- don.		"	"
" 15	"	66751	W. Jackson & Co., 1411 2 bots. Douglas St., Vancouver.	2 bots.	80	John Wyeth & Bros., Montreal.		"	"
" 15	"	66753	John Cochran, 1300 Douglas St., Vancouver.	3 pts.	1 20	Anheuser Busch, St. Louis.		"	"
" 15	"	66754	National Drug & Chemical Co., Victoria.	1 "	75	Holden & Co., Montreal.		Barlex	Malt Extract. Diastatic value. Low, otherwise genuine.
" 21	"	66758	H. O. Kirkham & Co., 741 3 Fort St., Victoria.	"	75	Jno. Schlitz Brewing Co. Milwaukee.		"	"

BULLETIN No. 326—TABLE I, PART II—MALT EXTRACTS.

Name of Imperial District.	Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.			
	Alcohol.		Proof Spirit		Extract by weight.		Sp. Gr. at 15.5°C.		By Weight.		By Volume.						
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.					
New South Wales	54051	1.0230	3.40	4.20	7.47	7.35	1.0230	13.19	44.5	3.24	0.308	0.080	0.308	0.176	None	54051	Malt Extract. Low diastatic value and somewhat low solids.
	54052	1.0235	3.60	4.38	8.00	11.23	1.0704	17.57	36.1	2.63	0.376	0.176	0.376	0.176	"	54052	Malt Extract, genuine.
	54053	1.0230	6.10	7.10	13.5	71.30				57.41	1.500	0.730	1.500	0.730	0.7	54053	Malt Extract, genuine.
	54054	1.018				78.20				63.25	1.200	0.515	1.200	0.515	56.0	54054	Malt Extract, genuine.
New Brunswick	60190	1.0204	4.00	5.08	8.90	6.90	1.0502	14.16	50.6	2.21	0.218	0.088	0.218	0.088	None	60190	Malt Extract, genuine.
	60191	1.0206	3.50	4.40	7.87	11.50	1.0700	17.08	35.0	2.68	0.368	0.168	0.368	0.168	"	60191	Malt Extract, genuine.
	60192	1.0179	3.20	4.14	7.25	6.00	1.0408	11.84	48.5	2.07	0.272	0.057	0.272	0.057	"	60192	Malt Extract, genuine.
	60193	1.0205	2.90	3.19	5.08	14.28	1.0738	18.33	22.0	8.53	0.328	0.162	0.328	0.162	"	60193	Malt Extract, genuine.
Quebec City	60046	1.0205	3.90	4.90	8.90	10.80	1.0717	17.86	39.5	2.81	0.392	0.188	0.392	0.188	"	60046	Malt Extract, genuine.
	60047	1.0205	1.90	2.00	3.50	13.40	1.0712	17.75	13.2	7.71	0.404	0.180	0.404	0.180	"	60047	Malt Extract, genuine.
	60048	1.0195	3.10	3.90	6.93	6.34	1.0407	11.82	46.4	2.53	0.256	0.056	0.256	0.056	"	60048	Malt Extract, genuine.
	60049	1.0175	2.10	2.70	4.74	12.92	1.0528	16.3	20.8	8.21	0.308	0.096	0.308	0.096	"	60049	Malt Extract, genuine.
Quebec City	60050	1.020	8.25	10.2	17.9	55.50				57.70	0.880	0.370	0.880	0.370	25.6	60050	Malt Extract, genuine.
	60051	1.0205	4.4	5.07	9.72	77.80	1.0775	19.12	40.0	62.98	0.740	0.102	0.740	0.102	Salicylic	60051	Malt Extract, genuine.
	60052	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	60052	Malt Extract, genuine.
	60053	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	60053	Malt Extract, genuine.
Quebec City	54517	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54517	Malt Extract, genuine.
	54518	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54518	Malt Extract, genuine.
	54519	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54519	Malt Extract, genuine.
	54520	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54520	Malt Extract, genuine.
Quebec City	54521	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54521	Malt Extract, genuine.
	54522	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54522	Malt Extract, genuine.
	54523	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54523	Malt Extract, genuine.
	54524	1.0205	3.43	4.27	7.49	5.23	1.0442	11.20	13.4	8.35	0.316	0.086	0.316	0.086	None	54524	Malt Extract, genuine.

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Rocky Mountains	52188 61801	1 0171 1 0167	3 34 3 48	4 0 4 4	7 1 7 6	5 74 5 80		1 66 1 71	0 25 0 27	0 06 0 06	Sul- phurous acid.	None...	52188 61801		Malt Extract. Genuine.
Vancouver	61802	1 454	0 00			81 60		73 88	1 44	0 54		54 6	61802		Malt Extract.
	61810	1 0491	2 24	2 6	4 9	13 29		9 23	0 40	0 18		None...	61819		Genuine.
	61820	1 0476	2 17	2 4	4 8	13 21		6 81	0 31	0 15		"	61823		
	61830	1 429	0 00			81 96		56 40	1 32	0 59		13 4	61838		Malt Extract; diastatic value low.
	61839	1 0014	5 08	6 3	11 1	2 41		0 49	0 28	0 06		None...	61839		Otherwise genuine.
	55276	1 0167	3 42	4 3	7 5	5 70		1 68	0 27	0 06		"	55276		
	55277	1 425	0 00			81 72		72 60	1 40	0 50		54 7	55277		Malt Extract.
	55278	1 0028	4 71	5 9	10 4	2 87		0 44	0 22	0 03		None...	55278		Genuine.
	55279	1 0454	2 25	2 8	4 9	12 35		6 49	0 31	0 15		"	55279		
	55280	1 0053	3 77	4 7	8 3	10 72		2 41	0 35	0 17		"	55280		
Victoria	55281	1 0299	3 39	4 2	7 4	9 49		2 46	0 26	0 09		"	55281		
	55282	1 0345	2 70	3 4	6 0	9 83		7 35	0 34	0 15		"	55282		
	55283	1 0186	4 11	5 1	9 0	5 85		1 64	0 24	0 09		"	55283		
	55284	1 0200	1 43	1 8	3 3	16 02		7 38	0 38	0 15	Salicylic acid.	"	55284		
	66712	1 0367	3 57	4 5	7 9	11 11		2 36	0 38	0 18		"	66712		Malt Extract.
	66741	1 3396	3 23	4 0	7 1	70 80		57 72	1 24	0 46		54 8	66741		Genuine.
	66742	1 427	0 00			81 60		60 88	1 40	0 50		111 0	66745		"
	66747	1 0184	3 28	4 1	7 2	16 10		1 77	0 23	0 06		None...	66747		
	66751	1 0438	2 25	2 8	4 8	12 26		6 29	0 36	0 16		"	66751		
	66752	1 0368	1 24	1 6	2 8	16 04		7 53	0 38	0 16	Salicylic acid.	"	66753		
	66754	1 4472	0 00			83 16		70 50	1 64	0 53		13 6	66754		Malt Extract; diastatic value low.
	66756	1 0271	3 64	4 6	8 0	8 73		2 50	0 28	0 10		None...	66758		Otherwise genuine.

APPENDIX R.

BULLETIN No. 327—BLEACHING POWDER.

(*Chlorinated Lime; Chloride of Lime; Chlorure de Chaux; Calx Chlorinata*).

J. U. VINCENT, ESQ.,

OTTAWA, November 15, 1915.

Deputy Minister of Inland Revenue,

SIR,—

The article referred to under the names given is generally known in Canada as Bleaching Powder or as Chlorure de Chaux. It is greatly in demand in washing linen, and for disinfecting purposes. The British Pharmacopoeia (Edition 1914) describes it under the names *Calx Chlorinata* and *Chlorinated Lime*; and gives the following characters and tests:—

“A dull white powder with a characteristic chlorinous odour, becoming moist and gradually decomposing on exposure to air. Partially soluble in water. The solution yields the reactions characteristic of calcium and of chlorides, and evolves chlorine copiously upon the addition of an acid. 0.5 gramme of Chlorinated Lime, mixed with 1.5 grammes of potassium iodide dissolved in 200 millilitres of water, gives, when acidified with 6 millilitres of hydrochloric acid, a reddish solution, which requires for decoloration not less than 42.3 millilitres of N/10 solution of sodium thiosulphate, corresponding to not less than 30 per cent of available chlorine.”

The one hundred and one (101) samples now reported may be classified as follows:—

Yielding 30 per cent of chlorine.....	21	samples.
“ 25 per cent of chlorine.....	41	“
“ 20 per cent of chlorine.....	26	“
“ 10 per cent of chlorine.....	8	“
“ less than 10 per cent chlorine.....	5	“
Total.....	101	“

Attention was directed to this subject by certain work reported to me by Mr. G. M. Land, of the Ontario Agricultural College, Guelph, who found, in ten market samples of Bleaching Powder, amounts of available Chlorine varying from 14.90 per cent to 23.40 per cent; and who adds: “I should like to know from you, if possible, if my tests are representative of the chloride of lime as retailed in pound and half pound packages, throughout the Province; as it seems to me that it is a question of low test, and short-weight all round.”

The results of this inspection show the article to be, as a rule, of very poor quality, only about 20 per cent of the samples meeting pharmacopoeal requirements; and many samples being practically worthless. It is well understood that Bleaching Powder is a perishable article, in the ordinary sense of that word. It can only be kept for any length

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of time, in good condition, by being carefully packed, and stored in a cool and dry place. But dealers should be fully aware of the nature of the goods they handle. It will be understood that the finding of the analyst does not necessarily mean that the article as originally manufactured, or as furnished to the retail dealer, was below standard strength. It does however mean that the article, as furnished to the consumer (the public) was below standard strength, and that the public has a just cause for complaint.

In the case of twenty samples the gross and net weight has been determined. As a rule the net weight meets the guarantee given on the label.

I beg to recommend publication of this report as Bulletin No. 327.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 327—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.	
				Quantity	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Sept. 9	Bleaching Powder.	64226	Nat. Drug and Chem. Co., Halifax.	3 pkgs	12	A. Mendleson's Sons, Albany.	.....

DISTRICT OF CAPE BRETON—

Sept. 8	Bleaching Powder.	63830	F. & J. Morley, Sydney..	3 lb..	30	White Swan S. & C. Ltd., Toronto.	.....
" 8	Chloride of Lime.	63831	G. F. Miles, Sydney.	3 " ..	30	Alpha Chem. Co., Berlin, Ont.	.....
" 8	"	63832	J. J. Turnbull, Sydney....	3 " ..	30	E. G. West & Co., Toronto.	.....
" 8	"	63833	Earl S. Auld, Sydney	3 " ..	60	A. Mendleson's Sons, Albany, N.Y.	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 10	Chloride of Lime.	60323	Coffin & Co., Charlotte-town.	3 pkgs	45	Alpha Chem. Co., Berlin, Ont.	.....
" 14	"	60324	Johnson & Johnson, Charlottetown.	3 "	60	Lyman's, Ltd., Montreal.	.....
" 24	"	60325	C. D. Rankin, Charlotte-town.	3 "	60	A. Mendleson's Sons, Albany, N.Y.	.....
" 24	"	60326	McKinnon Drug Co., Charlottetown.	3 "	30	" " "	.....
" 24	"	60327	Beer & Goff, Charlotte-town.	3 "	45	United Alkali Co., St. Helens, Eng.	.....

DISTRICT OF NEW BRUNSWICK—

July 15	Bleaching Powder.	66111	Nat. Drug and Chem. Co., St. John.	3 pkgs	60	Mendleson's Sons, Albany, N.Y.	.....
" 20	"	66112	O. Neill Co., Pharmacy, St. John.	3 "	30	" " "	.....
Aug. 11	"	66113	Estate of A. J. Waterson, St. Stephen.	3 "	50	" " "	.....
" 17	"	66114	Charles Burchill, Fredericton.	3 "	45	" " "
" 24	"	66115	C. H. Fairweather, Sussex.	3 "	51	Lymans, Ltd., Montreal.

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BLEACHING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Brand.	Results of Analysis.				—	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Available Chlorine.		Container.	Condition of Powder.			
		Claim.	Found.					

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.				
Labelled Chloride of Lime.	Hudson	30.0	28.3	.....	.....	64226	

E. T. McKEEN, INSPECTOR.

.....	White Swan.	29.3	.....	.....	.....	63830	
.....	.....	4.1	Cardboard	.....	Container broken.	63831	Below standard.
.....	West's.	16.3	"	.....	.....	63832	
.....	Hudson	30.0	24.8	.....	.....	63833	

WM. A. WEEKS, INSPECTOR.

.....	.....	11.15	Cardboard	.....	.....	60321	Below standard.
.....	Crescent	30.0	27.6	.....	.....	60324	
.....	Hudson	30.0	30.15	.....	.....	60325	
.....	"	30.0	25.0	.....	.....	60326	
.....	Greenbank..	25.7	.....	.....	.....	60327	

JOHN C. FERGUSON, INSPECTOR.

		p. c.	p. c.				
.....	Hudson..	30.0	27.10	.....	.....	60111	
.....	"	30.0	28.20	.....	.....	60112	
Hudson Brand	"	30.0	29.70	.....	.....	60113	
"	"	30.0	28.40	.....	.....	60114	
Crescent	Crescent..	30.0	30.40	.....	.....	60115	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU

1915.							
July	7 Bleaching Powder.	3606	Dorchester Lumber, Ste. Malachie, Co. Dorchester.	3 pkgs	15	Mendleson's Sons, Albany.	.....
"	15 Chlorure Chaux.	3621	A. Caillonette, Ste. Justine.	3 "	30	Sultana Lemeated, Montreal.	.....
"	23 Bleaching Powder.	3632	P. T. Renaud, Beauceville.	3 "	30	.....	.....
"	26 Chloride of Lime.	3633	J. A. Poulin, Valley Jct.	3 "	30	J. B. Renaud & Co., Quebec.	.....
"	22 Chlorure Chaux.	3600	Geo. Roy, St. Michel.	3 "	45	A. Mendleson's Sons, Albany.	.....
"	12 " "	292	Avila Lauzon, St. Jerome.	3 "	15	United Alkali Co.	.....
"	19 " "	305	Hon. Giroux, Ste. Agathe des Monts.	3 "	15	Hudson	.....
"	12 " "	316	H. Côté, St. Faustin Station.	3 "	30	Northrup & Lyman.	.....
"	19 Chloride of Lime.	2776	Alphonse Letourneau, St. Pierre, Montmagny.	3 "	30	J. A. Blanchard, New York.	.....
"	20 " "	2781	Ivanhoe Caron, Cap St. Ignace.	3 "	30	" " "	.....
"	21 " "	2786	Jos. Fournier, St. Thomas, Montmagny.	3 "	30	Northrup & Lyman, Toronto.	.....

DISTRICT OF THREE RIVERS—

July	9 Bleaching Powder.	69144	Monahan Bros., St. Lin.	3 pkgs	15	Chaput Son, Montreal.	.....
"	9 " "	69145	Alfred Henri, St. Lin	3 "	13	Hudson Co., Ltd., Montreal.	.....
"	10 " "	69146	R. Charbonneau, St. Esprit.	3 "	15	Northrup, Lyman, Toronto.	.....
"	22 " "	69148	L. O. Lassalle, St. Jacques.	3 "	15	Hudson Co., Ltd., Montreal.	.....
"	13 " "	69149	L. Pauze, L'Assomption.	3 "	30	Greenbank, Why, St. Helen's, Eng.	.....
"	14 " "	69150	W. H. Lacasse, L'Assomption.	3 "	15	Hudson Co., Ltd., Montreal.	Jos. Dufresne, Joliette.

DISTRICT OF EASTERN TOWNSHIPS—

Aug.	24 Bleaching Powder.	63094	L. D. Girard, Drummondville.	3 tins.	35	Lyman, Ltd., Montreal.	.....
"	24 " "	63095	" " "	3 "	15	United Alkali Co., England.	.....
"	25 " "	63096	J. H. E. Brodeur, St. Hyacinthe.	3 "	45	A. Mendleson Son, Albany, N. Y.	.....
"	25 " "	63097	S. Bourgeois & Co., St. Hyacinthe.	3 "	45	United Alkali Co., England.
"	25 " "	63098	C. Pagnuch, St. Hyacinthe.	3 "	30	S. J. Carter Co., Montreal.

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BLEACHING-POWDER.

Inspector's Report. (Is not an expression of opinion).	Brand.	Results of Analysis.				—	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Available Chlorine.		Container.	Condition of Powder.			
		Claim.	Found.					

N. CADIEUX and T. GENDREAU, TEMPORARY INSPECTORS.

		p. c.	p. c.				
.....			13.5	Can	Dry	3606	Below standard.
.....			31.8	"	"	3621	
.....		30.0	29.4	"	"	3632	
.....			24.0	"	"	3633	
.....			0.14	"	Very pasty.	3600	Below standard.
.....			31.6	Tin	Dry	292	
.....			9.7	Can	Fairly dry	303	Below standard.
.....			26.4	"	Dry	316	
.....			18.6	Paste- board.	Like paste	2776	Below standard.
.....			6.8	"	Very pasty.	2781	
.....			17.6	Can	Moist	2786	

DR. V. P. LAVALLEE, INSPECTOR.

.....			29.74	Can	Dry	69144	
.....			25.45	"	Fairly dry	69145	
.....		30.0	29.17	"	Dry	69146	
.....			26.45	"	Fairly dry	69148	
.....			29.46	"	Dry	69149	
.....			19.73	"	Fairly dry	69150	Below standard.

J. J. COSTIGAN, ACTING INSPECTOR.

Crescent			22.65	Tin	Slightly moist	68094	Below standard
.....			27.46	"	Dry and powdered	68095	
Hudson			24.36	"	Dry	68096	
.....			21.28	"	"	68097	Below standard
.....		30.0	27.50	"	Slightly moist	68098	

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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1915.							
Aug. 26	Bleaching Powder.	67416	Murphy & Riordon, 871 St. Catherine St. W., Montreal.	3 pkgs	15	A. Mendleson Sons.	
" 26	"	67417	W. J. Brown, 888 St. Catherine St. W., Montreal.	3 "	45	Alpha Chem. Co.	
" 26	"	67418	Jas. Graham, 4451 St. Catherine St., Westmount.	3 "	45		Hudon, Hebert & Co.
" 30	"	67419	C. E. Box, 4846 Sherbrooke St., Westmount.	3 "	45	United Alkali Co.	
" 30	"	67420	J. S. Benoit, 1379 Green Ave., Westmount.	3 "	45	Sultana Ltd	
DISTRICT OF VALLEYFIELD—							
Aug. 28	Bleaching Powder.	67201	A. Bissonnette, St. Zotique, P. Q.	3 tins.	45	Sultana, Ltd.	
" 28	"	67202	G. Pilon, St. Zotique, P. Q.	3 "	30	United Alkali Co., Ltd.	
" 30	"	67203	L. C. Dumesnil, River Beaudette.	3 "	45	Sultana, Ltd.	
" 31	"	67204	Miss P. Guinond, Beauharnois, P. Q.	3 "	30	United Alkali Co.	
" 31	"	67205	J. A. Faubert, Beauharnois, P. Q.	3 "	15	A. Mendleson	
DISTRICT OF OTTAWA—							
July 14	Bleaching Powder	51683	W. F. Gibson, 1105 Bank St., Ottawa.	3 Lb.	45	A. Mendleson's Sons.	Lymans Ltd., Montreal.
" 14	"	51684	A. S. Moreland, 819 Bank St., Ottawa.	3 pkg.	30	The Alpha Chem. Co., Berlin, Ont.	
Aug. 12	"	51685	A. Bourguignon, Booth St., Ottawa.	3 tins.	30	Unknown.	S. J. Major, Ltd., Ottawa.
July 10	"	63684	S. E. Johnston, Arnprior	3 "	30	A. Mendleson's Sons, Albany, N.Y.	Nat. Drug. & Chem. Co., Ottawa.
" 13	"	63685	Wm. Hughes, Carleton Place.	3 box.	40	E. G. West & Co., Toronto.	
DISTRICT OF KINGSTON—							
Sept. 1	Chloride of Lime.	61081	W. W. Gibson, Kingston.	3 tins.	30		N. C. Polson Co., Kingston.
" 1	"	61082	Jas. B. McLeod, Kingston	3 "	30		
" 1	"	61083	L. T. Best, Kingston.	3 "	30		
" 1	"	61084	A. P. Chown, Kingston.	3 "	45	A. Mendleson's, New York.	
" 1	"	61085	T. H. Sargent, Kingston.	3 "	30		

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BLEACHING POWDER

Inspector's Report. (Is not an expression of opinion.)	Brand.	Results of Analysis.				—	No. of Sample.	Remarks and Opinions of the Chief Analyst.
		Available Chlorine.		Container.	Condition of Powder.			
		Claim.	Found.					

D. J. KEARNEY, INSPECTOR.

Purchased as Chloride of Lime.	p. c.	p. c.	Can	Dry, coarse.			
.....	24.5	Can	Dry, coarse.	.....	67416	
" "	13.6	Paste-board.	Fine, dry.	.....	67417	Below standard.
" "	30.1	Can	Dry and caked.	.....	67418	
" "	30.2	"	"	.....	67419	
" "	31.1	Enameled can.	"	.....	67420	

D. J. KEARNEY, ACTING INSPECTOR.

Purchased as Chloride of Lime.		28.6	Can	Hard dry cake.			
.....	.....	28.6	Can	Hard dry cake.	.....	67201	
" " .....	.....	9.8	"	Very wet paste.	.....	67202	Below standard.
" " .....	.....	26.5	"	Hard cake and coarse	.....	67203	
" " .....	.....	30.2	"	Fine, dry.	.....	67204	
" " .....	.....	18.3	"	Dry, coarse.	.....	67205	Below standard.

J. A. RICKEY, INSPECTOR.

Crescent High Test. 30% avail Chlorine.	30.0	27.1	Tin	Dry			
Moody's Royal.	14.1	Paste-board	"	.....	51683	Below standard.
Reina High Test	29.0	Can	"	.....	51684	
High Test	30.4	Tin	"	.....	63684	
"	18.7	Paste-board	"	.....	63685	Below standard.

JAMES HOGAN, INSPECTOR.

Moody's Royal	30.1	Tin	Dry and well powdered.	61081	
	16.75	Paste-board	Dry but solid	61082	Below standard.
	16.5	"	Dry powdered on top.	61083	
	30.0	21.9	Tin	Dry	61084
Moody's Royal	19.7	Paste-board	Dry but solid.	61085	

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BULLETIN No. 327—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1915.							
Aug. 10	Bleaching Powder.	69913	T. Park, 954 St. Clair Ave., Toronto.	3 pks.	30	.....	White Swan S. & C. Co., Ltd., Toronto.
" 11	" ..	69914	E. F. Sears, 330 Danforth Ave., Toronto.	3 "	15	W. Wilson, Toronto.	.....
" 14	" ..	69916	Hill & Shields, Weston ..	3 "	30	Alpha Chem. Co., Berlin, Ont.	.....

DISTRICT OF HAMILTON—

July 21	Bleaching Powder.	70031	Roddy & Walker, St.3 Catharines.	pkgs.	15	Alpha Chem. Co., Ltd., Berlin.	.....
" 23	" ..	70033	F. A. Berriman, 149 Queen St., Niagara Falls.	3 "	30	Eaze Mfg. Co., Ltd., Toronto.	.....
Aug. 5	" ..	70063	Jas. J. McQuarrie, 11 King William St., Hamilton.	3 "	25	The Canadian Crystal Co., Toronto.	.....

DISTRICT OF WINDSOR—

Sept. 3	Chloride of Lime.	54672	R. N. Thurtell, Ingersoll.	3 s.	30	Alpha Chem. Co., Berlin, Ont.	.....
" 3	" ..	54673	A. G. Law, Ingersoll.....	3 "	30	Nat. Drug & Chem. Co.	.....
" 3	" ..	54674	A. J. Gill, Ingersoll.....	3 "	30	Alpha Chem. Co., Berlin, Ont.	.....
" 3	" ..	54675	John E. Gayfeer, Ingersoll.	3 "	30	" ..	.....
" 3	" ..	54676	H. Avery, Ingersoll.....	3 "	30	John B. Paine Co., Toronto.	.....
" 3	" ..	54677	F. McDougall, Ingersoll..	3 "	30	Nat. Drug Co.....	.....
" 3	" ..	54678	Bruce Phillips, Ingersoll..	3 "	30	John B. Paine Co., Toronto.
" 4	" ..	54679	B. A. Mitchell, London ..	3 "	30	Nat. Drug Co.....

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BLEACHING POWDER.

Inspector's Report. (Is not an expression of opinion.)	Brand.	Results of Analysis.				—	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Available Chlorine.		Container.	Condition of Powder.			
		Claim.	Found.					

H. J. DAGER, INSPECTOR.

		p. c.	p. c.					
Labelled White Swan Chloride & Lime or Bleaching Powder.	White Swan	30.0	20.4	Can.	Dry.		69913	Below standard.
Labelled Wilson's Chloride of Lime.	Wilson's		36.75	Paste- board.	"		69914	
Labelled Moody's Royal Chloride of Lime.	Moody's Royal.		18.60	"	"		69916	

H. J. DAGER, ACTING INSPECTOR.

Moody's Royal Car- bonized Chloride of Lime.	Moody's Royal.		17.5	Paste- board.	Dry, very light.		70031	Below standard.
The Home Bleacher Triple X.	Triple X		21.8	"	Dry		70033	
The Canadian Chlo- ride of Lime.	Canadian.		26.3	"	Not extra dry.		70035	

JOHN TALBOT, INSPECTOR.

Moody's Royal Car- bonized Chloride of Lime.	Moody's Royal.		17.06	Paste- board.	Dry, hard cake.		54672	Below standard.
N. D. & C. Co.	N. D. & C. Co.		27.77	"	Soft, coarse grained		54673	
Moody's Royal Car- bonized Chloride of Lime.	Moody's Royal.		15.36	"	Dry, fine.		54674	Below standard.
"	"		13.11	"	"		54675	
Bull Dog Brand Chlo- ride of Lime.	Bull Dog		31.5	Enamell'd metal can.	Coarse, dry.		54676	
N. D. & C. Co.	N. D. & C. Co.		18.76	Paste- board.	"		54677	Below standard.
Bull Dog Brand Chlo- ride of Lime.	Bull Dog		31.7	Enamell'd metal can.	"		54678	
Chloride of Lime N. D. & C. Co.	N. D. & C. Co.		27.3	Paste- board.	"		54679	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1915.								
Aug. 30	Bleaching Powder.	61370	Argue & Co., Roland	3 pkgs	60	Martin Bole, Wynne Co., Winnipeg.		
Sept. 1	"	61371	Dunlop Drug Dept., 448 Main St., Winnipeg.	3 "	30	A. Mendleson Co.		
" 1	"	61372	Gordon Mitchell Drug Co., Winnipeg.	3 "	30	Vendors		
" 1	"	61373	W. W. Starr, 807 Portage Ave., Winnipeg.	3 "	25	Martin Bole, Wynne Co., Winnipeg.		
" 1	"	61374	W. McCulloch, 647 Portage Ave., Winnipeg.	3 "	45	John B. Paine & Co., Toronto.		

DISTRICT OF SASKATCHEWAN—

Sept. 21	Chloride of Lime	66432	Regina Trading Co., Regina.	3 pkgs	40	E. G. West & Co., Toronto.	Mfr.....	
" 21	"	66432	Canada Drug and Stationery Co., Regina.	3 "	50	Nat. Drug and Chem. Co., Toronto.	"	
" 21	"	66434	E. L. Colling, Moose Jaw.	3 "	40	Martin Bole & Wynne, Winnipeg.	"	
" 21	"	66435	F. Marlatt, Moose Jaw.	3 "	45	J. B. Paine Co., Toronto.	Martin Bole & Wynne, Winnipeg.	
" 21	"	66436	Moose Jaw Drug and Stationery Co., Moose Jaw.	3 "	40	E. G. West, Toronto.	Mfr.....	

DISTRICT OF ALBERTA—

Sept. 10	Bleaching Powder.	52216	Nat. Drug and Chem. Co., Calgary.	3 pkgs	35	.....	J. B. Paine Co., Ltd., Toronto.	
" 10	"	52217	Oliver Bros., Ltd., Calgary.	3 "	40	.....	Nat. Drug & Chem. Co., Calgary.	
" 10	"	52218	Perry Drug Co., Calgary.	3 "	40	J. B. Paine Co., Ltd., Toronto.	.....
" 10	"	52219	J. D. J. McDonald, Calgary.	3 "	30	Nat. Drug & Chem. Co., Calgary	
" 10	"	52220	J. Findlay Drug Co., Calgary.	3 "	30	United Alkali Co., St. Helens, Eng.	

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BLEACHING POWDER.

Brand.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Available Chlorine.		Container.	Condition of Powder.	Weight.			
	Claim.	Found.			Claimed.	Net as found in Ounces.			Gross as found in Ounces.

J. B. COSGROVE, TEMPORARY INSPECTOR.

	p. c.	p. c.				p. c.	p. c.	
.....		33.2	Pasteboard.	Dry.	.....			61370
.....		32.2	Tin	"	.....			61371
.....		34.7	Pasteboard	"	.....			61372
.....		34.7	"	"	.....			61373
.....		29.7	Tin	"	.....			61374

L. H. HALL, TEMPORARY INSPECTOR.

.....	15.6	Pasteboard.	Very dry	.....	.....	66432	Below standard.
.....	25.1	"	Partially wet.	.....	.....	66433	
.....	35.3	"	Dry	.....	.....	66434	
.....	31.7	"	"	.....	.....	66435	
.....	16.1	"	"	.....	.....	66436	Below standard

A. W. R. MARKLEY, INSPECTOR.

.....	25.75			1 lb. full weight.	15.20	16.77	32216	
.....	23.65				15.34	16.90	32217	Below standard
.....	31.30				11.01	14.15	32218	
.....	17.40			$\frac{1}{2}$ lb. full weight.	6.81	7.94	32219	Below standard
.....	18.50				9.83	11.06	32220	

7 GEORGE V, A. 1917

BULLETIN No. 327—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ROCKY MOUNTAINS—

1915.								
July 20	Bleaching Powder.	61860	Agnew & Co., Ross-land.	3 tins.	60	The F. F. Dalley Co., Hamilton.		
Aug. 6	"	61863	The Okanagan Grocery, Vernon.	3 pkgs	40	The W. H. Mal-kin Co., Vancouver.		
" 6	"	61864	W. R. Megan, Ver-non.	3 "	40	Wilson Bros., Victoria.		
" 10	"	61871	R. McColl, Kam-loops.	3 "	45	The Columbia Chem. Co., New York.	McLennan & McFeely Vanc.	
" 10	"	61879	Hudson's Bay Co., Kamloops.	3 "	30	Hudson's Bay Co., Vancouver.		

DISTRICT OF VANCOUVER—

July 20	Bleaching Powder.	55323	H. Ryall, Columbia St., New Westminster.	3 tins.	45	A. Mendleson's Sons, New York.		Hudson High Test.
" 20	"	55324	C. A. Welsh, Ltd., 681 Columbia St., New Westminster.	3 "	40	Col. Chem. Co., New York.		Columbia Brand.
" 20	"	55325	Annandale Supply Co., Columbia St., New Westminster.	3 "	40		W. H. Mal-kin Co., Ltd., Vancouver.	Sa itary Brand.
" 20	"	55326	Fraser River Supply Co., 548 Columbia St., New Westminster.	3 "	30		A. Macdon-ald & Co., Vancouver.	White Star Brand.
" 21	"	55327	David Spencer, Vancouver.	3 "	30			Tiger Brand, specially packed for vendor.

DISTRICT OF VICTORIA—

July 29	Bleaching Powder.	66779	F. J. Williams, 613 Fort St., Victoria.	3 tins.	50	A. Mendleson's Sons, Albany, N. Y.		Hudson's High Test, Chloride of Lime.
" 29	"	66781	H. O. Kirkham Co., 741 Fort St., Victoria.	3 "	40	Columbia Chem. Works, Chicago.		Columbia Chlorinated Lime.
" 30	"	66785	Acton Bros., 1117 Douglas St., Victoria.	3 "	45	"		"
Sept. 22	"	66786	Nat. Drug & Chem. Co., 512 Yates St., Victoria.	3 pkgs	30	Alpha. Chem. Co., Berlin, Ont.		Chloride of Lime
" 23	"	66788	Windsor Grocery Co., 817 Government St., Victoria.	3 "	35		R. P. Rit-her & Co., Victoria.	St. James Chlorinated Lime.

SESSIONAL PAPER No. 14
BLEACHING POWDER.

Brand.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Available Chlorine.		Container.	Condition of Powder.	Weight.			
	Claim.	Found.			Claimed.	Net as found in ounces.			Gross as found in ounces.

THOS. PARKER, INSPECTOR.

	p. c.	p. c.				p. c.	p. c.	
Royal . . .	30.0	30.45	.....	.....	12 ounces net weight.	12.68	14.68	61890
Sanitary . . .	30.0	28.90	.....	.....	"	11.81	13.90	61893
Wilson's . . .	30.0	28.80	.....	.....	"	12.98	15.57	61894
Columbia . . .	.....	20.95	.....	.....	.....	12.63	15.24	61871 Below standard
Imperial . . .	.....	25.80	.....	.....	.....	13.61	16.47	61879

E. J. MORGAN, INSPECTOR.

Hudson . .	35.0	25.10	.....	.....	14 ounces net weight.	12.78	15.64	55323
Columbia .	30.0	28.90	.....	.....	12 ounces net weight.	12.80	15.43	55324
Sanitary . .	30.0	27.50	.....	.....	"	12.98	15.63	55325
White Star .	30.0	29.50	.....	.....	"	11.98	14.78	55326
Tiger . . .	30.0	29.75	.....	.....	"	12.98	15.77	55327

D. O'SULLIVAN, INSPECTOR.

Hudson . . .	35.0	27.10	.....	.....	14 ounces net weight.	12.18	15.03	66779
Columbia . .	25.0	19.05	Cardboard	Damp and pasty.	"	15.63	17.89	66780 Below standard
" . . .	25.0	19.80	"	"	"	15.61	18.04	66781
.....	.....	18.00	.....	.....	1 lb. full weight	13.33	14.91	66782
St. James . .	30.0	25.20	.....	.....	12 ounces net weight.	13.44	16.25	66783

APPENDIX S.

BULLETIN No. 328—SALAD OIL.

OTTAWA, November 25, 1915.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—I beg to hand you a report upon the examination of one hundred and fifty-nine (159) samples sold as Salad Oil. This collection was made in July, August and September of the present year, and covers all the Inspectoral Districts.

Edible Vegetable Oils are defined by an Order in Council of March 28, 1912, published as Circular G. 1002, in the following terms.

28.	G. 1002.
<u>FOOD.</u>	<u>10,000.</u>

DEPARTMENT OF INLAND REVENUE.

OTTAWA, April 9th, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness, in Council, bearing date the twenty-eighth day of March ultimo. and in virtue of the provisions of the twenty-sixth section of the "Adulteration Act," the following standards of quality have been established for "Edible Vegetable Oils":—

EDIBLE VEGETABLE OILS.

1. *Olive Oil, Sweet Oil*, is entirely a product of the fruit of the olive tree.
Its specific gravity, at 15.5° C., is not less than 0.9140 nor more than 0.9196.
Its specific refractive index, at 15.5° C., is not less than 1.4700 nor more than 1.4718.
Its Maumene number lies between 42 and 52.
Its iodine absorption number (using the Hubl solution) lies between 77% and 94%.
Its saponification number (Koettstorfer number) lies between 185.0 and 195.0.
It does not contain above 3.5% of free fatty acids.
2. *Cotton Seed Oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15.5° C., between 0.9216 and 0.9300; has a refractive index (at 25° C.) not less than 1.4700 and not more than 1.4725, and an iodine number not less than 104 nor more than 110 (Hubl solution).
3. *Salad Oil*. Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.
4. Mixtures of *Cotton Seed Oil* with *Olive Oil* must be so declared on the label.
The standards above defined take effect on the 13th May proximo.

W. J. GERALD,
Deputy Minister.

SESSIONAL PAPER No. 14

Since the effective date of the above Order in Council (May 13, 1912), two systematic inspections have been reported. In December 1912 and January 1913, thirty-six samples of Olive Oil were collected and examined, (See Bulletin 256). On the whole, the results of this inspection were satisfactory, only two samples being found adulterated. During the summer of 1914, one hundred and fourteen (114) samples of Olive Oil and Salad Oil were examined (Bull. 294). Eleven of these samples were found to be adulterated as containing cotton seed oil without declaration of the fact. Ample time has been given for manufacturers and importers to make themselves acquainted with the regulations which govern the sale of Salad Oil; and it is unsatisfactory to record forty-three (43) samples of the present collection, as adulterated, under the Act. In addition to this number, thirty-five (35) samples contain the word *coton* in very small type on the label. Section 24 of the Act requires that mixtures should be labelled in *conspicuous characters*, and it is certain that this requirement is not met in these cases. I have, for the present, judged these samples as *doubtful*; but it is questionable whether or not I am justified in thus describing them. Most of these samples are labelled "Huile Douce", equivalent to "Sweet Oil", which is identified with Olive Oil by the Order in Council of the 28th of March, 1912.

Adulteration, consists in selling as Salad Oil an article which consists of, or which contains, cotton seed oil, without notification thereof. This violates the requirements of the Order in Council quoted above; and constitutes adulteration under the terms of section 3 of the Adulteration Act, which reads as follows:—

"Food shall be deemed to be adulterated within the meaning of the Act:—
 "(d) if it is an imitation of, or is sold under the name of another article;

"(g) if its strength or purity falls below the standard, or its constituents are
 "present in quantity not within the limits of variability fixed by the Governor in
 "Council, as hereinafter provided."

The subjoined synopsis presents the results of the present inspection:

Meet Legal Requirements:

as being Olive Oil.....	67 samples.
as declaring cotton seed oil.....	14 "
<i>Doubtful</i> , as containing the word "coton" in small type	35 "
<i>Adulterated as containing</i> cotton seed oil without declaration	43 "

Total 159 samples

I would respectfully recommend publication of this report as Bulletin No. 328

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 328—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Aug. 11	Salad Oil...	69816	R. M. Sutherland, New Glasgow.	3 bots.	1.50	France Conserves Co., Paris, France.	R. McGregor & Sons, New Glasgow.
" 13	" ...	69817	James McArthur.....	3 "	1.20	E. & A. Jonas, Han-art Anseri, Nordet, Bruxelles.	Henri Jonas, Montreal.
" 13	" ...	69818	C. Grant, New Glasgow..	3 "	1.35	H. J. Heinz, Seville, Spain.	Unknown....

DISTRICT OF CAPE BRETON—

July 20	Salad Oil...	63826	Earl S. Auld, Sydney....	3 bots	1.11	Antoine Guiat, France.
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DISTRICT OF PRINCE EDWARD ISLAND—

July 16	Salad Oil..	60313	J. G. Passmore, Charlottetown.	3 bots.	90	F. B. & A. Artand Freres, Marseilles.	Carvell Bros., Charlottetown.
" 24	" ...	60314	Mathew & McLean, Ltd., Souris.	3 "	75	Lazenby's, London, Eng.	.....
" 24	" ...	60315	" " ..	3 "	59	Fraser Thornton & Co., Cookshire, P.Q.	.....

DISTRICT OF NEW BRUNSWICK—

July 14	Salad Oil...	66101	W. A. Simonds, St. John.	3 bots.	90	Crosse & Blackwell, London, Eng.	.....
" 16	" ...	66102	McBeath's Grocery, St. John.	3 "	1.05	A. Gaillard & Fils, Marseilles, France.	.....
" 19	" ...	66103	Baird & Peters, St. John.	3 "	90	Lazenby's, London, Eng.	.....
" 20	" ...	66104	McPherson Bros., St. John.	3 "	1.05	E. & A. Jonas, Han-art, Brussels.	.....
" 20	" ...	66105	W. A. Porter, St. John..	3 "	1.05	Barton Guestier, Bordeaux, France.	.....
" 21	" ...	66106	G. E. Barbour & Co., Ltd., St. John.	3 "	66	.....	A. Gaillard & Fils, Marseilles, France.
" 21	" ...	66107	Puddington, Wetmore, Morrison, Ltd, St. John.	3 "	60	Boy Piere & Fils, Soton, France.	C. A. Munro, agent, St. John.
Aug. 11	" ...	66108	A. V. Cheechi, St. Stephen.	3 "	75	P. Pastene & Co., Montreal.	.....
" 17	" ...	66109	E. G. Hoben, Fredericton.	3 "	75	E. Loubon, Nice....	.....
" 26	" ...	66110	G. A. Robertson, Moncton.	3 "	84	Crosse & Blackwell, London, Eng.	.....

SESSIONAL PAPER No. 14

SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive In at 15.5° C.	Iodine Number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 15.5°.		

W. A. PETIPAS, TEMPORARY INSPECTOR.

	p. c.	p. c.					
.....	1.4697	.....	Light brown.	.....	0.9168	69816	Olive Oil. Meets legal re- quirements.
.....	1.4698	.....	"	.....	0.9175	69817	" "
.....	1.4696	.....	Green	.....	0.9163	69818	" "

E. T. McKEEN, INSPECTOR.

.....	1.4714	94.3	Brown	Red	0.9179	63826	Adulterated under Sec. 3 (d) and (g), and Sec. 37.

WM. A. WEEKS, INSPECTOR.

.....	1.4702	.....	Green	.....	0.9163	60313	Olive Oil. Meets legal re- quirements.
.....	1.4700	.....	"	.....	0.9160	60314	" "
.....	1.4734	109.9	Brown	Red	0.9222	60315	Cotton seed oil declared. Meets legal requirements.

JOHN C. FERGUSON, INSPECTOR.

.....	1.4699	.....	Green	.....	0.9159	66101	Olive Oil. Meets legal re- quirements.
.....	1.4704	88.8	Brown	.....	0.9166	66102	" "
.....	1.4702	.....	Green	.....	0.9163	66103	" "
.....	1.4702	.....	"	.....	0.9165	66104	" "
.....	1.4699	.....	"	.....	0.9158	66105	" "
Imported in bulk and bottled by vendor	1.4704	81.2	Brown	.....	0.9168	66106	" "
Bottled by vendor	1.4704	.....	Green	.....	0.9171	66107	" "
.....	1.4700	.....	"	.....	0.9137	66108	" "
.....	1.4729	106.5	Brown	Red	0.9222	66109	Adulterated under Sec. 3 (d) and (g), and Sec. 37.
.....	1.4702	.....	Green	.....	0.9156	66110	Olive Oil. Meets legal re- quirements.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC PROVINCE—							
1915.							
July	6 Huile a Salade.	3601	A. Audet, Ste. Claire.....	3 bots.	30	.....	Ed. Couture, Levis.
"	7 "	3605	Dorchester Lumber Co....	3 "	27	.....	Standard Imports, Ltd., Montreal.
"	8 "	3608	D. Towel, St. Leon.....	3 "	30	.....	Dorchester Lumber Co.
"	9 "	3609	A. H. Hilaire, St. Anges Beauce.	3 "	25	.....	Livernois, Que..
"	12 "	3612	J. L. Audet, St. Edward	3 "	25	.....	Dorchester Lumber Co.
"	13 "	3614	J. A. Cloutier, St. Odilon.	3 "	30	.....	A. B. Dupuis, Quebec.
"	14 "	3618	P. C. M. Dechine, St. Germain.	3 "	25	.....	Carrier & Fils, Levis.
"	16 "	3622	P. K. Prevots, Ste. Rose..	3 "	30	.....	Dr. Morin, Quebec.
"	17 "	3628	Ganipe, Ste. Prosper..	3 "	30	.....	Carrier & Fils, Levis.
"	27 "	3635	T. Dalblain, Ste. Marie...	3 "	25	.....	Dr. Morin, Quebec.
"	28 "	3636	J. E. Gagne, Scotts	3 "	30	.....	" " "
"	20 Salad Oil..	3586	Michel Lacroix, St. Raphael.	1 chop	50	.....	The Besser Oil Co.
"	22 Huile Table.	3597	Geo. Roy, St. Michel.....	3 bots.	75	Roy Pere & Fils, Salon France.	.....
"	22 "	4405	J. A. Lemieux, St. Michel	3 "	90	Beau marchand Brand, Nice, France.	.....
"	22 "	4415	Gervais Carrier, St. Gervais.	1 chop	95	.....	W. Brunet & Cie.
"	22 "	4419	Alphonse Audet, St. Lazare.	3 bots.	75	Tussier Freres, Province France.	.....
"	12 Huile a manger.	290	Pierre Simard, St. Jerome	3 "	150	Barton & Guestier, Bordeaux.	.....
"	12 "	291	Chas. Elie Laflamme, St. Jerome.	3 "	60	.....	L. Chaput, Fils, & Cie.
"	19 "	302	Damien Hetu, Ste. Agathe des Monts.	3 "	75	.....	H. Ely.....
"	19 "	303	L. W. Brissette.....	3 "	75	Talbot Frere.....	.....
"	19 Huile d' Olive.	315	H. Gareau, St. Justin Station.	3 "	30	.....	Hudon & Orsali.
"	19 "	320	F. N. Asselin, St. Faustin	3 "	45	.....	" " "
Sept.	14 Huile a manger.	323	E. St. Maurice, St. Eustache C., des Deux Montagnes	3 "	30	.....	.....
"	14 "	327	Belair & Paquette, St. Eustache Co., des Deux Montagnes.	3 "	75	H. J. Heinz, Pittsburg.	.....
"	14 "	329	E. H. Champagne, St. Eustache Co., des Deux Montagnes.	3 "	54	Crosse & Blackwell..	.....
July	16 Huile a Salade.	2772	Georges Roy, Berthier. .	3 bots.	45	E. Loubon, Nice....	.....
"	21 "	2787	F. B. C. Toudreau, Montmagny.	3 "	30	.....	J. B. Reneaud, Quebec.
"	28 "	2796	Nap. Fournier, St. Paul, Montmagny.	3 "	30	.....	Turcot Frere....
"	30 "	2800	Emile Dube, Montmagny.	3 "	30	E. Loubon & Cie....	.....

SESSIONAL PAPER No. 14

SA LAD OIL.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Refractive Index at 15° C.	Iodine Number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 15° C.		
J. E. AUDET, O. BROCHU, N. CADIEUX, T. GENDREAU, TEMPORARY INSPECTORS	p. c.	p. c.					
	1.4738		Brown...	Red		3601	Cotton seed oil declared in small type. Doubtful.
	1.4738		"	"		3605	Cotton seed oil declared. Meets legal requirements
	1.4738		"	"		3608	"
	1.4738		"	"		3609	Cotton seed oil declared in small type. Doubtful.
	1.4740		"	"		3612	Cotton seed oil declared. Meets legal requirements
	1.4740		"	"		3614	Cotton seed oil declared in small type. Doubtful.
	1.4738		"	"		3618	"
	1.4738		"	"		3622	"
	1.4738		"	"		3628	"
	1.4738		"	"		3635	"
	1.4740		"	"		3636	"
	1.4737	107	"	"		3586	Adulterated under sec. 3, (d) and (g), and sec. 37.
	1.4707		Straw Yellow.			3597	Olive Oil. Meets legal requirements.
	1.4703		Green			4405	"
	1.4706		"			4415	"
	1.4708		"			4419	"
	1.4706		"			290	"
	1.4698		Straw Yellow.			241	"
	1.4709		"			302	"
	1.4708		"			303	"
	1.4773		Brown.	Red		315	Cotton seed oil declared in small type. Doubtful.
	1.4750		"	"		320	"
	1.4738	109	"	"		328	Adulterated under sec. 3, (d) and (g), and sec. 37.
	1.4698		Green			327	Olive Oil. Meets legal requirements.
	1.4703		"			329	"
Cotton	1.4738		Brown.	Red		2773	Cotton seed oil declared in small type. Doubtful.
	1.4738		"	"		2781	"
	1.4738		"	"		2786	"
Cotton	1.4703		"			2403	"

7 GEORGE V, A. 1917

BULLETIN No. 328—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS. —

1915.							
July 9	Salad Oil...	69134	Monahan Bros., St. Lin.	3 bots.	30	.....	Chaput & Son, Montreal.
" 12	" ...	69135	Armand Amirault, L'Epiphanie.	3 "	30	Chem. Co., Hervey, St. Basile du Portf.	.....
" 26	" ..	69165	Alphonse Goulet, St. Thomas.	3 "	30	.....	Jos. Desfresne, Joliette.
" 27	" ..	69166	Giroux & Bellefeuille, Three Rivers.	3 "	75	St. Etienne Boulli, France.	Laporte Martin, Montreal.
" 28	" ...	69169	O. Carignan Cie, Three Rivers.	3 "	90	Barton Guestier, France.	"
" 31	" ...	69174	Joseph Racette, L'Epiphanie.	3 "	30	E. Loubon Cie, Nice.	.....
" 31	" ...	69175	Anna Laviolette, L'Epiphanie.	3 "	30	" " ..	"
Aug. 2	" ...	69177	Edmond Bourgre, L'Epiphanie.	3 "	30	" " ..	Jos. Desfresne, Joliette.
" 3	" ...	69178	F. Laurion, L'Epiphanie.	3 "	30	" " ..	Hudon & Orsali, Montreal.
" 3	" ...	69180	L. Provost, L'Epiphanie.	3 "	30	.....	Hervey Chem. Co., St. Basile, Portneuf.
" 4	" ...	69181	Dame P. A. Guibeault, St. Norbert.	3 "	30	E. Loubon & Cie, Nice.	J. Desfresne & Chevalier, Pouliot, Joliette.
" 15	Huile a Manger.	69182	C. Barrette, Joliette.	3 "	90	Barton Questier, Bordeaux.	Laporte Martin, Montreal.

DISTRICT OF EASTERN TOWNSHIPS. —

Aug. 11	Salad Oil ..	63070	S. & W. Fortier, Sherbrooke.	3 bots.	38	.....	.....
" 12	" ...	63071	D. S. Bachand, Coaticook.	3 "	25	.....	.....
" 17	" ...	63072	Mercurie & Frere, Granby.	3 "	30	Fraser Thornton Co., Coaticook.	.....
" 18	" ...	63073	N. Hamel, Magog.	3 "	30	.....	.....
" 18	" ...	63074	A. Provencher, Windsor Mills.	3 "	30	.....	.....
" 24	" ...	63075	J. O. Gauthier, Drummondville.	3 "	30	Chance & Cie, Montreal.	.....

SESSIONAL PAPER No. 14

SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Refractive Index at 15.5° C.	Iodine Number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 15.5°.		

DR. V. P. LAVALLEE, INSPECTOR.

	p. c.	p. c.					
.....	1.4740	.....	Brown.	Red	.....	69134	Cotton seed oil declared in small type. Doubtful.
.....	1.4738	106	"	"	.....	69135	Adulterated, under Sec. 3, (d) & (g) and Sec. 37.
.....	1.4736	.....	"	"	.....	69165	Adulterated under Sec. 3 (d) & (g). A sticker with words "Quality guaranteed" covers the word <i>Cotton</i> on the label.
.....	1.4707	.....	Green	.....	.....	69166	Olive oil. Meets legal requirements.
.....	1.4705	.....	"	.....	.....	69169	.....
.....	1.4740	105	Brown	Red	.....	69174	Adulterated under Sec. 3 (d) & (g) and Sec. 37
.....	1.4738	106	"	.....	.....	69175	.....
.....	1.4745	.....	"	"	.....	69177	Cotton seed oil declared in small type. Doubtful.
.....	1.4739	.....	"	.....	.....	69178	.....
.....	1.4738	.....	"	"	.....	69180	Cotton seed oil declared. Meets legal requirements.
.....	1.4739	.....	"	.....	.....	69181	Cotton seed oil declared in small type. Doubtful.
.....	1.4702	.....	Green	.....	.....	69182	Olive oil. Meets legal requirements.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1.4738	.....	Brown	Red	.....	69570	Cotton seed oil declared in small type. Doubtful.
.....	1.4738	.....	"	"	.....	69571	.....
The word <i>Cotton</i> is stencilled on label, and the words "Pure Salad Oil" printed.	1.4738	.....	"	"	.....	69572	.....
.....	1.4738	.....	"	"	.....	69573	.....
.....	1.4738	.....	"	"	.....	69574	.....
.....	1.4740	.....	"	"	.....	69575	.....

Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
Aug. 26	Salad Oil...	67406	A. Silverstone, 640 St. Catherine st. W. Montreal.	3 bots.	45	.....	P. Adelstein....
" 26	" ..	67407	H. Russell, 847 St. Catherine st., W. Montreal.	3 "	45	Cross & Blackwell...	.....
" 26	" ..	67408	W. J. Brown, 888 St. Catherine st., Montreal.	3 "	75	.....	W. G. Patrick..
" 26	" ..	67409	Warren Henderson, 1017 St. Catherine st., W. Montreal.	3 "	30	.....	Hudon Hebert..
Sept. 1	" ..	67410	Prince Arthur Liquor Grocery, 20 Prince Arthur st., E. Montreal.	3 "	42	.....	Joseph Edelberg
" 1	" ..	67411	A. Vallancourt, 45 Prince Arthur st., E. Montreal.	3 "	75	.....	Hudon & Orsali.
" 1	" ..	67412	S. Dover, & Son, Prince Arthur & Colonial ave., Montreal.	3 "	85	.....	Laporte & Martin.
" 1	" ..	67413	J. Gariepy, 101 Prince Arthur st., E. Montreal.	3 "	30	.....	Hudon & Orsali.
" 1	" ..	67414	M. Caplan, 221 Colonial ave., Montreal.	3 "	42	.....	Unknown.....
" 1	" ..	67415	N. Goldenzeig, 1024 St. Lawrence Boul, Montreal.	3 "	24	.....	P. Adelstein....

DISTRICT OF VALLEYFIELD—

July 15	Salad Oil...	51370	Victor Gregoire, St. Johns P.Q.	3 bots.	30	.....	Hudon Hebert & Cie Ltd.
" 15	" ..	51371	M. A. Contois, St. Johns P.Q.	3 "	30	.....	.....
" 15	" ..	51372	Joseph Chartier, St. Johns P.Q.	3 "	30	.....	.....
" 20	" ..	51373	W. Plante, Valleyfield.	3 "	30	.....	.....
" 20	" ..	51374	E. Beauchamp, St. Lambert.	3 "	30	.....	.....
" 22	" ..	51375	J. Miron, Hawkesbury.	3 "	30	.....	.....
Aug. 18	" ..	51376	J. L. Marleau, St. Telephore, P.Q.	3 "	30	.....	L. Chaput Fils & Cie.
" 18	" ..	51377	T. S. Montgomery, Dalhousie Station, P.Q.	3 "	30	.....	T. W. Chamberlain Co.
" 21	" ..	51378	Gerrier & Caza, St. Anicet, P.Q.	3 "	30	.....	L. Chaput Fils & Cie.
" 21	" ..	51379	E. Dixon, Port Levis, P.Q.	3 "	30	.....	Unknown.....

SESSIONAL PAPER No. 14

SALAD OIL.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks, and opinion of the Chief Analyst.
	Refractive Index at 15.5° C.	Iodine Number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 15.5°.		

D. J. KEARNEY, INSPECTOR.

	p. c.	p. c.				
.....	1-4735	.....	Brown. ....	.....	67406	Cotton seed oil declared in small type. Doubtful.
.....	1-4699	.....	Green. ....	.....	67407	Olive oil meets legal requirements.
.....	1-4698	.....	" .....	.....	67408	"
.....	1-4731	.....	Brown. ....	.....	67409	Cotton seed oil declared in small type. Doubtful.
.....	1-4736	.....	" .....	.....	67410	Cotton seed oil declared. Meets legal requirements.
.....	1-4698	.....	Green. ....	.....	67411	Olive Oil. Meets legal requirements.
.....	1-4706	.....	" .....	.....	67412	"
.....	1-4771	83.5	Brown.	Red	67413	Cotton seed oil declared in small type. Doubtful.
.....	1-4733	.....	" .....	.....	67414	Cotton seed oil declared. Meets legal requirements.
.....	1-4733	.....	" .....	.....	67415	Cotton seed oil declared in small type. Doubtful.

D. J. KEARNEY and J. J. COSTIGAN, ACTING INSPECTORS.

.....	1-4744	.....	Brown.	Red	51370	Cotton seed oil declared in small type. Doubtful.
.....	1-4738	.....	" .....	" .....	51371	"
.....	1-4738	107	"	"	51372	Adulterated under Sec. 2, (1 and g) and Sec. 37.
.....	1-4738	.....	" .....	" .....	51373	Cotton seed oil declared in small type. Doubtful.
.....	1-4738	.....	" .....	" .....	51374	"
.....	1-4738	.....	" .....	" .....	51375	Adulterated under Sec. 3 (1 and g) and Sec. 37.
.....	1-4740	.....	" .....	" .....	51376	Cotton seed oil declared in small type. Doubtful.
.....	1-4740	105	"	"	51377	Adulterated under Sec. 2 (1 and g) and Sec. 37.
.....	1-4740	.....	" .....	" .....	51378	Cotton seed oil declared in small type. Doubtful.
.....	1-4740	.....	" .....	" .....	.....	.....

7 GEORGE V, A. 1917

BULLETIN No. 328—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1915.							
July 17	Salad Oil. . .	51686	W. C. Johnston, Brockville.	3 bots.	25	E. Lonbon, Nice . .	T. W. Chamberlin & Co., Prescott.
" 17	" . .	51687	Thos. Nappy, Brockville.	3 "	45	" "	H. I. Jonas, Montreal.
" 17	" . .	51688	T. H. Clifford, Brockville.	3 "	30	" "	Gilmour & Co., Brockville.
" 24	" . .	51689	R. Runions, Cornwall. . .	3 "	30	" "	" "
" 31	" . .	51690	E. F. Budd, Pembroke. . .	3 "	75	Gorman Eckert & Co. Ltd., London, Ont.	Mfrs..
" 12	" . .	63686	R. A. Murdock, Mill-Roche.	3 "	30	Standard Imports Co., Montreal.	.....

DISTRICT OF KINGSTON—

July 29	Salad Oil. . .	70201	N. C. Polson & Co., Kingston.	3 bots.	30	Vendors.	" "
Aug. 2	" . .	70202	The Belleville Pharmacy, Belleville.	3 "	45	" "	Lyman, Montreal.
" 2	" . .	70203	D. M. Waters, Belleville.	3 "	50	" "	Lyman.
" 2	" . .	70204	A. L. Green, Belleville. . .	3 "	45	" "	Drug Trading Co., Toronto.
" 3	" . .	70205	O. G. Johns, Cobourg. . .	3 "	45	" "	" "
" 3	" . .	70206	W. H. Semples, Cobourg. .	3 "	25	" "	Drug Trading Co., Toronto.
" 3	" . .	70207	A. J. Gould, Cobourg. . .	3 "	40	" "	N. C. Polson Co., Kingston.
" 3	" . .	70208	T. Geo. Watson, Port Hope.	3 "	45	" "	Nat. Drug Co., Toronto.
" 3	" . .	70209	Nugent Drug Co., Peterborough.	3 "	30	" "	Drug Trading Co., Toronto.
" 3	" . .	70210	The Douros Co., Peterborough.	3 "	40	" "	Armstrong & Pafford, Toronto.

DISTRICT OF TORONTO—

Aug. 26	Salad Oil. . .	69922	J. D. Cassie, 3203 Yonge St., Toronto.	3 bots.	30	The Carter Drug Co., Toronto.	" "
" 26	" . .	69923	A. B. Cork, 2611 Yonge St., Toronto.	3 "	75	Berniers & Cie., Malines.	Medland Bros., Toronto.
" 26	" . .	69924	J. J. Coyle, 1867 Yonge St., Toronto.	3 "	30	The Carter Drug Co., Toronto.	" "
" 8	" . .	70094	The Loblaw Stores, 1388 Bathurst St., Toronto.	3 "	30	" "	The Carter Drug Co., Toronto.
" 11	" . .	70095	J. C. Sharp, 1592 Danforth Ave., Toronto	3 "	30	" "	" "

SESSIONAL PAPER No. 14

SALAD OIL

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Refractive Index at 15.5° C.	Iodine Number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 15.5°.		
J. A. RICKEY, INSPECTOR.							
.....	1.4720	112	Brown	Red	.....	51686	Adulterated under sec. 3 (d) and (g) and sec. 37
.....	1.4738	102	"	"	.....	51687	"
.....	1.4730	106	"	Deep red.	.....	51688	"
.....	1.4728	106	"	Red	.....	51689	"
Labelled Pure Salad Oil.	1.4740	105	"	"	.....	51690	"
Labelled Huile Douce à Salade Supérieure Loulon, Quality Guaranteed.	1.4738	.....	"	"	.....	63686	Adulterated under sec. 3 (d) and (g) A sticker with the words Quality Guaranteed covers the word Color on the label.

JAMES. HOGAN, INSPECTOR.

.....	1.4694	.....	Green	.....	.....	70201	Olive oil. Meets legal re- quirements.
.....	1.4728	108	Brown	Red	.....	70202	Adulterated under sec. 3 (d) and (g) and sec. 37
.....	1.4711	93	Very slight brown.	Slight red.	.....	70203	Olive oil. Meets legal re- quirements.
.....	1.4690	.....	Green	.....	.....	70204	"
.....	1.4728	106	Brown.	Red	.....	70205	Adulterated under sec. 3 (d) and (g) and sec. 37
.....	1.4728	105	"	"	.....	70206	"
.....	1.4738	115	"	"	.....	70207	"
.....	1.4700	.....	Green	.....	.....	70208	Olive oil. Meets legal re- quirements.
.....	1.4728	102	Brown.	Red	.....	70209	Adulterated under sec. 3 (d) and (g) and sec. 37
.....	1.4728	105	"	"	.....	70210	"

H. J. DAGER, INSPECTOR.

Labelled Pure Salad Oil.	1.4740	108	Brown	Red	.....	69922	Adulterated under sec. 3 (d) and (g) and sec. 37
Labelled Extra Choice Acme Im- perial Table Oil.	1.4714	.....	Brownish green	.....	.....	69923	Olive oil. Meets legal re- quirement.
Labelled Pure Salad Oil.	1.4740	108	Brown	Red	.....	69924	Adulterated under sec. 3 (d) and (g) and sec. 37
"	1.4740	111	"	"	.....	70034	"
"	1.4740	110	"	"	.....	70035	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1915.							
Aug. 17	Salad Oil...	70096	A. Ferguson, 2070 Queen St., East Toronto.	3 bots.	60	F. Lazenby & Sons, Ltd., London, Eng.	.....
" 20	" ..	70097	Clairo Bros., 968 Queen St., East Toronto.	3 " "	75	.....	Unknown
" 20	" ...	70098	Mrs. A. Burbidge 894 Queen St., East Toronto.	3 " "	60	L. A. Price, Nice, Bordeaux, France,	.....
" 23	" ...	70099	Mary Watson, 49 Davenport Rd., Toronto.	3 " "	50	Carter Drug Co., Toronto.	.....
DISTRICT OF HAMILTON—							
July 21	Salad Oil...	70001	J. Becker, 101 Geneva Street, St. Catharines.	3 bots.	30	I. X. L. Spice and Coffee Mills, Ltd., London.	.....
" 21	" ...	70002	Bentham & Bradley, St. Paul and Geneva Sts. St. Catharines.	3 " "	30	.....	Unknown
" 23	" ...	70003	O. L. Kirtner, 10 Centre St., Niagara Falls.	3 " "	30	Gorman Eckert, London.	.....
" 23	" ...	70004	W. H. Martin, 810 Ferry Street, Niagara Falls, South.	3 " "	30	.....	Unknown
Aug. 5	" ...	70005	Wm. Keating, 337 York Street, Hamilton.	3 " "	30	.....	Lumsden Co., Hamilton.
" 5	" ...	70006	C. Thomas, 300 King St. West, Hamilton.	3 " "	30	.....	I. X. L. Spice & Coffee Mills, London.
DISTRICT OF WINDSOR—							
Aug. 4	Salad Oil...	54641	R. W. Jones, London ..	3 bots.	30	I. X. L. Spice Co., London.	.....
DISTRICT OF MANITOBA—							
Sept. 1	Salad Oil...	61380	Winnipeg Drug Co., 407 Portage Ave. Winnipeg.	3 bots.	60	.....	Nat. Drug Co...
" 2	" ..	61381	Gordon Mitchell Co., Portage Ave. Winnipeg.	3 " "	30	Vendors .....	.....
" 2	" ...	61382	Percy F. Braun, 462 Portage Ave., Winnipeg.	3 " "	60	Nat. Drug Co., Winnipeg.	.....
" 2	" ...	61383	Ultra Druggists, 725 Main St., Winnipeg.	3 " "	100	.....	Societe Legeran Nice, France.
" 2	" ...	61384	Norquay Pharmacy, 876 Main St., Winnipeg.	3 " "	45	.....	McClure & Langley Co., Winnipeg.
" 2	" ...	61385	T. Eaton Co., Winnipeg.	3 " "	60	Vendors .....	.....

SESSIONAL PAPER No. 14

SALAD OIL.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15.5° C.	Iodine Number.	Nitric Acid Test.	Halphen Test.	Specific Gravity at 20° C.		
<i>Concluded.</i>							
	p.c.	p.c.					
Labelled Finest Luc- cia Oil.	1 4708	.....	Green .....	.....	.....	70096	Olive Oil. Meets legal re- quirements.
.....	1 4708	.....	" .....	.....	.....	70097	"
Labelled Finest Cream Pure Luccia Olive Oil.	1 4704	.....	" .....	.....	.....	70098	"
Labelled, Pure Salad Oil.	1 4740	108.0	Brown.....	Red .....	.....	70099	Adulterated under Sec. 3, (d) and (g) and Sec. 37.

H. J. DAGER, ACTING INSPECTOR.

Labelled Pure Salad Oil.	1 4728	105.0	Brown.....	Red .....	.....	70001	Adulterated under Sec. 3 (d) and (g) and Sec. 37.
Labelled Huile à Salade, Extra, E. Lubon, Nice.	1 4728	105.0	" .....	" .....	.....	70002	"
Labelled Pure Salad Oil.	1 4728	105.0	"	Deep red.....	.....	70003	"
Labelled, Huile à Salade, Extra, E. Lubon, Nice.	1 4728	104.0	"	Red .....	.....	70004	"
Labelled R. U. Um- berto Brand, Pure Italian Olive Oil.	1 4705	.....	Green .....	.....	.....	70005	Olive Oil. Meets legal re- quirements.
Labelled, Pure Salad Oil.	1 4728	106.0	Brown.....	Red .....	.....	70006	Adulterated under Sec. 3 (d) and (g) and Sec. 37.

JOHN TALBOT, INSPECTOR.

Labelled, Pure Salad Oil.	1 4730	108.0	Brown	Red	54641	Adulterated under Sec. 3 (d) and (g) and Sec. 37.
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J. B. COSGROVE, TEMPORARY INSPECTOR.

.....	1 4722	112.6	Brown	Red	0.9212	61380	Adulterated under Sec. 3 (d) and (g) and Sec. 37.
.....	1 4720	114.4	"	"	0.9206	61381	"
.....	1 4720	110.9	"	"	0.9204	61382	"
.....	1 4680	.....	Green	Clear	0.9135	61383	Olive Oil. Meets legal re- quirements.
.....	1 4682	.....	" .....	" .....	0.9146	61384	"
.....	1 4721	.....	Brown	Red	0.9200	61385	Not a See Oil. Declared Meets legal requirements.

7 GEORGE V, A. 1917

BULLETIN No. 328—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1915.							
Sept.	3	Salad Oil...	61386 J. B. Coyle, 1116 Main St., Winnipeg.	3 bots.	75	Glazer Kohn Co., Chicago.	
"	3	"	61387 A. J. Kimball, 785 Main St., Winnipeg.	3 "	45	Crosse & Blackwell Co., England.	
"	3	"	61388 J. W. Wright, 820 St Mathews Ave., Winnipeg.	3 "	75	Pompian Co., Baltimore.	
"	3	"	61395 Mineons & Wilson Co., 571 Ellice Ave., Winnipeg.	3 "	75	Gaillard & Fils, Winnipeg.	

DISTRICT OF ALBERTA—

Aug.	11	Salad Oil...	52206 Hudson's Bay Co., Edmonton.	3 bots.	45	Biet Fils, Aine Salon, France.	
"	11	"	52207 " " "	3 "	90	Mfd. in Bordeaux...	
"	11	"	52208 " " "	3 "	90	L. A. Price & Co., Bordeaux, France.	
"	13	"	52209 A. Urquhart & Co., Ltd., Lacombe.	3 "	90	Crosse & Blackwell, London, Eng.	
"	16	"	52210 The John Irwin Co., Ltd., Calgary.	3 "	75	John Vitucci Co....	
"	16	"	52211 " " "	3 "	75	H. J. Heinz Co., Pittsburg, Pa.	
"	19	"	52212 Geo. I. Wood, Calgary...	3 "	1 05	John Vitucci Co., Italy.	
"	19	"	52213 Hudson's Bay Co., Calgary	3 "	1 05	Biet Fils, Aine Salon, France.	
"	19	"	52214 " " "	3 "	1 05	L. A. Price & Co., Bordeaux, France.	
"	19	"	52215 " " "	1 "	50	E. Lazenby & Sons, London, Eng.	

DISTRICT OF ROCKY MOUNTAINS—

July	20	Salad Oil...	61840 Trail Grocery Co., Trail..	3 jars	1 60		
"	20	"	61848 T. Lauriente & Son, Calgary.	3 bots.	1 50		The W. H. Malkin Co., Vasse.
"	20	"	61852 Hunter Bros., Rossland..	3 "	90	A. Durand, Bordeaux	

SESSIONAL PAPER No. 14

SALAD OIL.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and opinion of the Chief Analyst.
	Refractive Index at 15.5° C.	Iodine number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 20° C.		

Concluded.

	P. D.	P. C.					
.....	1 4721	114.7	Brown ..	Red	0.9200	61386	Cotton Seed Oil declared. Meets legal requirements.
.....	1 4680	.....	Green	Clear	0.9137	61387	Olive Oil. Meets legal re- quirements.
.....	1 4682	.....	Green	Clear	0.9137	61388	Olive Oil. Meets legal requirements.
.....	1 4684	.....	" .....	" .....	0.9141	61395	"

A. W. R. MARKLEY, INSPECTOR.

					(At 15.5°)		
La Perte Brand	1 4711	.....	Green ..	Yellow ..	0.9160	52206	Olive Oil. Meets legal requirements.
Pinard Brand Olive Oil	1 4712	.....	" .....	" .....	0.9160	52207	"
Virgin Oil Gaston Monde Brand	1 4709	.....	" .....	" .....	0.9158	52208	"
Pure Luccia Oil	1 4710	.....	" .....	" .....	0.9155	52209	"
Vituccia Brand Vir- gin Olive Oil	1 4710	.....	" .....	" .....	0.9158	52210	"
Heinz Pure Olive Oil. Bot. 158	1 4711	.....	" .....	" .....	0.9159	52211	"
Vituccia Brand Vir- gin Olive Oil	1 4710	.....	" .....	" .....	0.9158	52212	"
La Perle Pure Olive Oil	1 4711	.....	" .....	" .....	0.9163	52213	"
Gaston Monae Brand	1 4708	.....	" .....	" .....	0.9160	52214	"
Elizabeth Lazenby Finest Luccia Oil	1 4708	.....	" .....	" .....	0.9161	52215	"

THOS. PARKER, INSPECTOR.

Columbia	1 4749	112.7	Brown ..	Crimson ..	0.9228	61840	Adulterated under Sec. 3 (1) and 6 (1) and 8 (1) 35.
.....	1 4750	110.4	"	Red	0.9216	61848	"
.....	1 4742	111.2	"	Crimson ..	0.9220	61850	"

7 GEORGE V, A. 1917

BULLETIN No. 328—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1915.							
July 15	Salad Oil...	55300	Dickie's Grocery Ltd., 660 Hornby St., Vancouver.	3 bots.	60	Holbrook & Co., London, Eng.	
" 16	" ...	55301	W. H. Edgett Co., Ltd., 118 Hastings St., Vancouver.	3 tins.	45	John Vittucci Co.	
" 16	" ...	55302	Woodward Dept. Stores, Vancouver.	3 bots.	75	Kelly, Douglas & Co., Ltd., Vancouver.	
" 16	" ...	55303	" " "	3 "	75	W. K. Houston & Co., Victoria.	
" 16	" ...	55304	Hudson's Bay Co., Vancouver.	3 "	60	Biet Fils, Aîné Salomon Province, France.	
" 21	" ...	55305	S. Goranson, 328 Hastings St., Vancouver.	3 "	75		Kelly, Douglas & Co., Ltd., Vancouver.
" 22	" ...	55306	Gruchly & Carlaw, 5th Ave. and Granville St., Vancouver	3 "	120	H. J. Heinz Co., Leamington, Ont.	
" 23	" ...	55307	Merilees Cash Grocery, 2640 Main St., Vancouver.	3 "	75	McLately Mfg. Co., Vancouver.	
" 23	" ...	55308	" " "	3 "	75	A. Magnano Co.	
" 23	" ...	55309	Calladine's Grocery, 1588 Commercial Drive, Vancouver.	3 "	75	Libby, McNeill & Libby, Toronto.	
DISTRICT OF VICTORIA—							
July 21	Salad Oil...	66760	Windsor Grocery Co., 817 Govt. St., Victoria.	3 bots.	90		John Vittucci Co., Vancouver.
" 21	" ...	66764	West End Grocery Co., 1002 Govt. St., Victoria.	3 "	120	A. Gillard & Fils, Marseilles, France.	
" 21	" ...	66766	Dixi H. Ross & Co., 1317 Govt. St., Victoria.	3 pts.	75	Armour & Co., Seattle, Wash.	
" 23	" ...	66769	Erskine & Co., 861 John-son St., Victoria.	3 bots.	75	L. Noel & Sons, London, Eng.	
" 23	" ...	66772	Henry W. Driver, 856 Yates St., Victoria.	3 "	75		Wilson Bros., Victoria.
" 27	" ...	66774	Linden Grocery, Linden and May Sts., Victoria.	3 "	45	Seattle & Puget Sound Pkg. Co., Seattle.	
" 28	" ...	66776	Gladstone Grocery, Gladstone and Fernwood, Victoria.	3 "	75	J. C. Kubias, Redland, Cal.	
" 28	" ...	66778	H. O. Kirkham & Co., Ltd., 1109 Govt. St., Victoria.	3 "	75	Kelly Confection Co., Vancouver.	
" 30	" ...	66784	Acton Bros., 1317 Douglas St., Victoria.	3 "	45	W. K. Houston & Co., Victoria.	
Sept. 20	" ...	66787	H. Schroeder, 300 Menzies St., Victoria.	3 "	45	Seattle & Puget Sound Pkg. Co., Seattle.	

SESSIONAL PAPER No. 14

SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 15° C.	Iodine Number.	Nitric Acid Colour Test.	Halphen Colour Test.	Specific Gravity at 15° C.		
E. J. MORGAN, INSPECTOR.							
	p. c.	p. c.					
Pure Olive Oil	1.4711	...	Green	Yellow	0.9161	55300	Olive Oil. Meets legal requirements.
Vittucci Brand Virgin Olive Oil.	1.4711	...	"	"	0.9162	55301	"
Labelled Columbia Brand Salad Oil.	1.4748	111.4	Brown	Red	0.9227	55302	Adulterated under Sec. 3 (d) and (g), and Sec. 37.
Labelled Finest Salad Oil.	1.4748	111.2	"	"	0.9224	55303	"
Warranted Pure	1.4710	...	Green	Yellow	0.9161	55304	Olive Oil. Meets legal requirements.
Angeline Brand. Guaranteed pure.	1.4712	...	"	"	0.9162	55305	"
Heinz Pure Olive Oil.	1.4711	...	"	"	0.9163	55306	"
Labelled Salad Oil. Vendor said it was cotton seed oil.	1.4749	111.7	Brown	Red	0.9222	55307	Adulterated under Sec. 3 (d) and (g), and Sec. 37.
Napoleon Brand Olive Oil.	1.4710	...	Green	Yellow	0.9160	55308	Olive Oil. Meets legal requirements.
Libby's Pure Olive Oil.	1.4712	...	"	"	0.9157	55309	"
D. O'SULLIVAN, INSPECTOR.							
Virgin Olive Oil ...	1.4710	...	Green	Yellow	0.9162	66760	Olive Oil. Meets legal requirements.
Olive Oil	1.4711	...	"	"	0.9162	66764	"
Taken from 50 gallon barrel marked sterilized Cotton Seed Oil.	1.4748	109.9	Brown	Red	0.9218	66766	Cotton Seed Oil declared. Meets legal requirements.
Finest Lunca Oil.	1.4709	...	Green	Yellow	0.9162	66769	Olive Oil. Meets legal requirements.
Beaumarshall Brand.	1.4711	...	"	"	0.9163	66772	"
"	1.4741	108.7	Brown	Pink	0.9216	66774	Cotton Seed Oil declared. Meets legal requirements.
Bohemian Club Brand.	1.4710	...	Green	Yellow	0.9170	66775	Olive Oil. Meets legal requirements.
Reception Brand (Cotton Seed.)	1.4747	110.2	Brown	Red	0.9219	66778	Cotton Seed Oil declared. Meets legal requirements.
Finest Salad Oil (Cotton Seed.)	1.4748	111.2	"	"	0.9223	66784	"
Extra Quality Cotton Seed Oil.	1.4741	108.9	"	Pink	0.9219	66787	"

APPENDIX T.

BULLETIN No. 329—POT AND PEARL BARLEY.

OTTAWA, January 6, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—

I beg to hand you a report of work done upon one hundred and ninety one samples, purchased as Pot Barley (Orge Mondé) or as Pearl Barley (Orge Perlé) throughout Canada in May, June and July of 1915.

One hundred and eight of these samples are sold as Pot Barley and eighty three as Pearl Barley.

From the Encyclopoedia Britannica, Eleventh Edition, under article "Barley", I find the following:—

"Barley is now chiefly cultivated for Malting, to prepare spirits and beer, but it is also largely employed in domestic cookery. For the latter purpose, the hard somewhat flinty grains are preferable, and they are prepared by grinding off the outer cuticle, which forms "pot barley". When the attrition is carried further, so that the grain is reduced to small round pellets, it is termed "pearl barley."

Webster's Dictionary (1911) defines Pot Barley as *Hulled Barley*; and Pearl Barley, as "Kernels of barley, ground to the form of small round grains, used in soups, etc."

Church (Foods, etc.) states that 100 pounds of barley yields about 37 pounds of pearl barley.

Wiley (Foods, etc., p. 217) quotes the weight of 100 Kernels of unhulled barley as 4.83 grammes, equivalent to an average of 20.7 Kernels per gramme.

J. A. Dawson has determined the number of Kernels per gramme for thirteen (13) samples of pot barley and for eight (8) samples of pearl barley. This number varies from 27 to 47, average 39 for pot barley, and from 121 to 140, average 136 for pearl barley. Calculating from these figures, the loss in weight of the Kernel in production of pot barley, is 46 per cent; in production of pearl barley is 84.6 per cent. This is a much greater loss of weight than is indicated by Church's figures (63 per cent).

Nineteen (19) samples, which Mr. Dawson regards as mixtures of pot and pearl barley, vary from 42 to 138 Kernels per gramme, averaging 68 Kernels. Nearly all of these samples are sold as pearl barley; and it is probable that they more truly represent the pearl barley of the market, than the eight specially selected by Mr. Dawson, and above referred to. On this assumption, the loss of weight in manufacture of pearl barley would be 69 per cent of the weight of the Barley Kernel in the raw state.

It appears from the literature of the subject, that it is common practice to use sulphur dioxide to whiten pearl barley, and tale or some similar substance, to give

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brightness and a pearl-like appearance; moistening with a dilute solution of glucose in order to secure adhesion of the talc is also said to be practised. It has been claimed that these additions are made to prevent the growth of micro-organisms upon the grain; but Pluecker and Flebbe (*Z.-Nahr-Genussm.* 1914, 28) have demonstrated that this claim has no foundation in fact. The authors conclude that sulphur and talc are employed primarily to bleach the grain, and to secure uniformity of appearance which permits the use of inferior barley in manufacture.

Liverseege and Hawley (*Journal of the Society of Chemical Industry*, 1915, 203) report upon seventy three (73) samples of English pearl barley, and conclude that there appears to be an increase in the use of mineral facing. The insoluble ash found for sixty seven (67) samples is below 0.22 per cent; while six samples show amounts varying between 0.22 and 0.52 per cent. The authors point out that fifty (50) samples contain less than 0.05 per cent insoluble ash, and that only one of these contained more than 1.10 per cent of total ash. They consider that 0.10 per cent of insoluble ash is a very reasonable allowance, and that samples containing a larger proportion than this should be regarded as adulterated with mineral facing. The total ash should not exceed 1.10 per cent. Talc (soapstone) is the mineral substance generally employed in facing of this sort; and being absolutely indigestible and totally devoid of food value, must be regarded as an adulterant, quite possibly harmful to health.

Rice starch is another article employed in the facing of pearl barley. It cannot be regarded as harmful to health, but undoubtedly must be regarded as an adulterant under Section 3, h, of the Act, being used "to conceal damage, or to make the article appear better or of greater value than it really is." Even the use of barley starch in facing pearl barley must be regarded as adulteration, since the object is mainly to conceal inferiority.

Sixty-four (64) per cent of the samples herein reported as having been sold under the term *Pot Barley*, are found to yield more than 1.10 per cent of total ash; while only twenty-one (21) per cent of those sold as *pearl barley*, yield more than 1.10 per cent of total ash. These figures however, must be interpreted in connection with the above mentioned fact, that many of the samples are doubtfully true to name; in other words, until we are able to distinguish sharply between what is to be regarded as a pot barley, and what as a pearl barley, the commercial nomenclature is too indefinite for purposes of definition.

This report must be regarded mainly as a study of the subject, rather than as furnishing material for departmental action. It may enable us to define Pot Barley and Pearl Barley in such a way as to definitely distinguish these important articles of food; and to establish regulations which shall guide in the interpretation of work done in the future. With exception of eight (8) samples, which are faced with talc, and must be regarded as adulterated under section 3, h, of the Act, I have not felt justified in passing judgment upon the samples now reported.

I would respectfully recommend its publication as Bulletin No. 320.

I have the honour to be,

Sir,

Your Obedient Servant,

A. McGILL,
Chief Analyst

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
June 18	Barley (Pot)..	54031	A. L. Doyle & Co, Halifax.	2 lb..	12	Unknown	J. B. Shaffner & Co., Halifax.
" 23	" " ..	54032	Wm. Moore, Halifax....	2 " ..	12	"	Unknown
" 25	" " ..	54033	Corkum & Ritcey, Ltd., Halifax.	2 " ..	10	Tillsonburg Mills Co., Tillsonburg, Ont.	T. H. Taylor & Co., Chatham, Ont.
" 25	" (Pearl).	54034	Wentzell's Ltd., Halifax..	2 " ..	12	John McKay, Bowmanville.	Pyke Bros., Halifax.
" 25	" " ..	54035	John Scott & Co., Halifax.	2 " ..	15	Quaker Oats Co..	Bauld Bros., Halifax.
" 25	" (Pot)..	54036	Knoche & Nicolle, Halifax.	2 " ..	12	Unknown	John Tobin & Co., Halifax.
" 28	" (Pearl).	54037	Allison's Ltd., Halifax...	2 " ..	16	John McKay, Bowmanville.	" "
July 2	" " ..	54038	Turnbull & Co., Digby...	2 " ..	24	Unknown	Baird & Peters, St. John.
" 2	" (Pot)..	54039	H. G. Warne, Digby.....	2 " ..	24	"	Unknown
" 13	" (Pearl).	54040	S. Thomson, Dartmouth..	2 " ..	16	"	R. B. Seeton & Co., Halifax.

DISTRICT OF NOVA SCOTIA—

June 3	Barley (Pot)..	65843	James Cavanagh, New Glasgow.	2 lb..	10	Hayme Mill. Co., Bridgeton, Ont.	R. McGregor & Sons, New Glasgow.
" 3	" " ..	65844	2 Barkers Ltd., New Glasgow.	2 " ..	10	McLeod Mill. Co., Stratford, Ont.	Unknown ..
" 3	" (Pearl).	65845	James McArthur, New Glasgow.	2 " ..	16	Unknown	R. B. Seeton, Halifax.
" 3	" (Pot)..	65846	" " ..	2 " ..	10	Ogilvie M. Co., Montreal.	.....
" 4	" " ..	65847	A. J. Roop, New Glasgow.	2 " ..	12	Unknown	R. McGregor & Sons, New Glasgow.
" 4	" " ..	65848	S. M. Lockhart, New Glasgow.	2 " ..	10	"	" "
" 4	" (Pearl).	65849	" " ..	2 " ..	16	"	R. B. Seeton, Halifax.
" 4	" (Pot)..	65850	R. M. Sutherland, New Glasgow.	2 " ..	10	"	R. McGregor & Sons, New Glasgow.
" 4	" " ..	65851	A. A. McDonald, New Glasgow.	2 " ..	10	"	" "
" 4	" " ..	65852	D. J. Murray, New Glasgow.	2 " ..	10	"	R. B. Seeton, Halifax.

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BARLEY (POT AND PEARL.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.			
.....		0.99	0.05	.....	54031	
.....		1.22	0.06	.....	54032	
.....		1.23	0.06	.....	54033	
.....		1.28	0.24	Rice and talc.	54034	Faced with rice and talc. Adulterated.
.....		0.88	0.05	.....	54035	
.....		1.36	0.09	.....	54036	
.....		0.80	0.06	.....	54037	
.....		0.98	0.06	Rice.	54038	Faced with rice.
.....		1.38	0.07	.....	54039	
.....		0.80	0.06	.....	54040	Contains 5% rice grains.

W. A. PETIPAS, TEMPORARY INSPECTOR.

.....	1.46	0.09	.....	65843	
.....	1.12	0.07	.....	65844	
.....	1.10	0.06	.....	65845	
.....	0.82	0.05	.....	65846	
.....	1.27	0.09	.....	65847	
.....	1.38	0.07	.....	65848	
.....	0.78	0.04	.....	65849	
.....	1.22	0.11	.....	65850	Contains 3% unadulterated barley.
.....	1.26	0.10	.....	65851	
.....	1.43	0.09	.....	65852	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND—

1915.							
April 30	Barley (Pot)..	60170	John G. Passmore, Charlottetown.	2 lb..	12		J. A. Farquharson, Charlottetown.
May 7	" " ..	60171	E. Toombs, Charlottetown.	2 " ..	12		N. Rattenbury & Co., Charlottetown.
" 7	" (Pearl).	60172	W. W. Walker, Charlottetown.	2 " ..	12		Carvell Bros., Charlottetown.
" 7	" (Pot)..	60173	J. C. Crabbe, St. John...	2 " ..	12		Auld Bros., Charlottetown.
" 8	" " ..	60174	Beer & Goff, Charlottetown.	2 " ..	10		Carvell Bros., Charlottetown.

DISTRICT OF NEW BRUNSWICK—

May 10	Barley (Pot)..	66066	2 Barkers Ltd., St. John.	1 lb..	6	Haynes M. Co., Brigden, Ont.	
" 10	" (Pearl).	66067	Walter Gilbert, St. John.	1 " ..	12		R. H. Cole, St. John.
" 17	" (Pot)..	66068	Baird & Peters, St. John	1 " ..	4	John McKay, Bow- manville, Ont.	
" 18	" " ..	66069	G. E. Barbour Co., Ltd., St. John.	1 " ..	5	Can. Cereal Co., Ont.	
" 18	" (Pearl).	66070	" " ..	1 " ..	10		S. Hansen & Son, London, Eng.
" 19	" " ..	66071	Puddington, Wetmore & Morrison, St. John.	1 " ..	6		Standard Import Co., Montreal.
" 27	" " ..	66072	B. Beveridge, Andover...	1 " ..	10		John & Scofield, St. John.
June 8	" (Pot)..	66073	W. W. E. Smith, Harvey Station.	1 " ..	7		G. E. Barbour, Ltd., St. John.
" 9	" " ..	66074	H. J. Burton & Co., St. Andrews.	1 " ..	5		H. W. Cole, Ltd., St. John.
" 17	" " ..	66075	Doyle's Ltd., Moncton...	1 " ..	10		Reed Co., Mon- cton.

DISTRICT OF QUEBEC CITY—

April 20	Orge (Mondé).	56385	Elz. Turcotte, 74 Desfosés, Quebec.	2 lb..	24	W. Brunette Cie..	Mfr.....
" 20	" " ..	56386	Myrand, Pouliot, Quebec.	2 " ..	30	" ..	" ..
" 20	" " ..	56387	Chs. Riverin, 55 Couronne, Quebec.	2 " ..	30	Jos. Villeneuve, Charlesbourg.	" ..
" 22	" " ..	56388	Arthur Drolet, 714 St. Valier, Quebec.	2 " ..	25	Simmers, Toronto.	" ..
" 22	" " ..	56389	Art. Bedard, 728 St. Valier, Quebec.	2 " ..	20	Jos. Coutière, Lor- mière.	" ..
" 23	" " ..	56390	L. D. Marier, 774 Dor- chester, Quebec.	2 " ..	24	Unknown	Unknown

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BARLEY (POT AND PEARL.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

WM. WEEKS, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	1.32	0.08	.....	.....	60170
.....	1.43	0.11	.....	.....	60171
.....	0.96	0.07	.....	.....	60172
.....	1.44	0.08	.....	.....	60173
.....	1.35	0.09	.....	.....	60174

J. C. FERGUSON, INSPECTOR.

.....	.....	1.18	0.07	.....	.....	60066
.....	.....	0.86	0.04	.....	.....	60067
.....	.....	1.20	0.05	.....	.....	60068
.....	.....	1.18	0.05	.....	.....	60069
.....	.....	0.94	0.05	.....	.....	60070
.....	.....	1.16	0.07	Rice.	.....	60071
.....	.....	0.92	0.05	.....	.....	60072
.....	.....	1.34	0.07	.....	.....	60073
.....	.....	1.36	0.06	.....	.....	60074
.....	.....	1.19	0.10	.....	.....	60075

F. X. W. E. BELAND, INSPECTOR

.....	2.10	0.06	60080
.....	2.04	0.06	60081
.....	1.81	0.10	60082
.....	1.67	0.05	60083
.....	2.01	0.03	60084
.....	2.29	0.08	60085

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BULLETIN No. 329—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
April 26	Orge (Perl�)	56391	Jos. A. Grenier, 94 St. Jean, Quebec.	2 lb..	16	Dunlop Bros., Glasgow.	Mfr
" 27	" (Mond�)	56392	E. Robitaille, 48 Victoria, Quebec.	2 " ..	20	W. Brunette Cie..	"
" 27	" " ..	56393	L. Pepin, 142 Massue, Quebec.	2 " ..	20	Unknown	Unknown
" 28	" " ..	56394	Jos. Boiteau, 27 Sutherland, Quebec.	2 " ..	20	"	"

DISTRICT OF QUEBEC PROVINCE—

April 28	Barley (Pearl).	276	Charlemagne Taillon, St. Jerome.	2 lb..	10	Ogilvie's, F. M.
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DISTRICT OF THREE RIVERS—

May 5	Orge (Perl�)	67978	A. L. Boucher, Joliette..	2 lb..	25	Lyman Knox, Montreal.
" 5	" " ..	67979	J. O. Daviault, Berthierville.	2 " ..	12	.....	Laporte, Martin, Montreal.
" 7	" " ..	67980	O. Paquette, Berthierville.	2 " ..	12	.....	Hudon, Hebert, Montreal.
" 7	" " ..	67981	A. L. Caisse, Berthierville.	2 " ..	12	.....	" "
" 15	" " ..	67982	J. A. Jubinville, Joliette.	2 " ..	12	.....	Jos. Desfresnes, Joliette.
" 15	" " ..	67983	C. Barrette, Joliette	2 " ..	10	.....	" "
" 15	" " ..	67984	Wilham Perrault	2 " ..	12	.....	Chevalier & Magnan, Joliette.
" 19	" " ..	60995	Arcade Brault, Ste. Melanie.	2 " ..	12	.....	" "
" 31	" " ..	69110	O. Carignan Fils, Three Rivers.	2 " ..	16	Chaput Fils, Montreal.
June 1	" " ..	69112	J. A. Boisvert, Joliette ..	2 " ..	12	Chevalier & Pouliot, Joliette.

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BARLEY (POT AND PEARL.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

Concluded.

	p. c.	p. c.	p. c.			
.....		0.86	0.04	.....	56391	
.....		2.16	0.08	.....	56392	
.....		1.94	0.14	.....	56393	
.....		2.44	0.23	56394	Faced with talc. Adul- terated.

N. CADIEUX, TEMPORARY INSPECTOR.

					276	
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DR. V. P. LAVALLE, INSPECTOR.

		0.92	0.03			67978	
		0.92	0.04			67979	
		1.17	0.07			67980	
						67981	
		1.27	0.07			67982	
		1.09	0.06			67983	
		1.10	0.06			67984	
		0.82	0.04			67985	
		1.01	0.23	Talc		68118	Faced with talc. Adul- terated.
		1.18	0.07			68119	

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BULLETIN No. 329 —

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
April 30	Barley (Pearl).	67181	J. A. Labelle, 1927 Masson St., Rosemount.	2 lb..	16	.....	Unknown
" 30	" "	67182	Jos. Mathieu, 373 Fifth Ave., Rosemount.	2 ..	11	.....	" .....
" 30	" "	67183	Martin & Fils, 1718 Masson St., Rosemount.	2 " ..	15	.....	Hudon, Hebert..
" 30	" "	67184	N. Trudeau, 248 Dandurand St., Rosemount.	2 " ..	14	.....	Unknown
" 30	" (Pot)	67185	J. E. Normandeau, 2252 Rosemount Boulevard.	2 " ..	15	.....	Hudon & Orsali.
" 30	" " "	67186	A. Petit, 2424 Rosemount Boulevard.	2 " ..	10	.....	Hudon, Hebert..
" 30	" (Pearl)	67187	H. Pepin, Cor. Dandurand and 9th Ave., Rosemount.	2 " ..	14	.....	Unknown
" 30	" (Pot)	67188	Mount Royal Grocery, 1296 Mt. Royal Ave., Montreal.	2 " ..	10	.....	P. Adelstein....
" 30	" " "	67189	M. Desrosiers, 1340 Mes-sier St., Montreal.	2 " ..	12	.....	Couvrette & Sau-riol.
" 30	" " "	67190	W. Hawthorne, 1155 Mt. Royal Ave. E., Mon-treal.	2 " ..	12	.....	Unknown

DISTRICT OF EASTERN TOWNSHIPS—

May 11	Barley (Pot)..	58156	Herbert Fortier, Sherbrooke.	2 lb..	10	.....	.....
" 11	" " "	58157	Bernard & Cie, Sherbrooke.	2 " ..	10	.....	.....
" 11	" " "	58158	Theriault & Leclerc, Sherbrooke.	2 " ..	10	.....	.....
" 11	" " "	58159	H. Lacroix, Sherbrooke ..	2 " ..	10	.....	.....
" 11	" (Pearl).	58160	Geo. F. Moore, Sherbrooke.	2 " ..	10	.....	.....
" 11	" "	58161	J. Audet, Coaticook.....	2 " ..	10	.....	.....
" 12	" "	58162	Woodhuan & McKee, Coaticook.	2 " ..	14	.....	.....
" 12	" (Pot)	58163	J. Durand, Coaticook	2 " ..	10	.....	.....
" 12	" (Pearl).	58164	Farley & Burroughs, Coaticook.	2 " ..	10
" 12	" (Pot)..	58165	Gerin & Boulay, Coati-cook.	2 " ..	10

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BARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

D. J. KEARNEY, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	0.80	0.03	.....	.....	67181
.....	0.94	0.04	.....	.....	67182
.....	0.87	0.02	.....	.....	67183
.....	0.86	0.05	.....	.....	67184
.....	1.10	0.05	.....	.....	67185
.....	67186
.....	0.75	0.02	.....	.....	67187
.....	1.34	0.08	.....	.....	67188
.....	0.93	0.05	.....	.....	67189
.....	67190

J. J. COSTIGAN, ACTING INSPECTOR.

.....	.....	1.08	0.04	.....	.....	58156
.....	.....	1.28	0.08	.....	.....	58157
.....	.....	1.11	0.07	.....	.....	58158
.....	.....	1.25	0.07	.....	.....	58159
.....	1.25	0.08	58160
.....	1.23	0.07	58161
.....	0.75	0.02	58162
.....	1.18	0.07	58163
.....	1.10	0.07	58164
.....	1.30	0.07	58165

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BULLETIN No. 329—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1915.							
May 19	Barley (Pot)..	58135	George Bougie, Alex- andria.	2 lb..	10		
" 19	" " ..	58136	F. J. Dever, Alexandria..	2 " ..	10		
June 9	" " ..	58137	D. H. Conner, Bedford...	2 " ..	10		
" 9	" (Pearl).	58138	Best Bros., Bedford...	2 " ..	15		
" 9	" " ..	58139	C. O. Jones, Bedford....	2 " ..	20		
" 9	" " ..	57936	A. Nadeau, Bedford....	2 " ..	14		
" 9	" (Pot)..	57937	J. Dagenais, Farnham...	2 " ..	12		
" 9	" " ..	57938	J. E. Baillargeon, Farn- ham.	2 " ..	8		
" 15	" " ..	40970	Tourrangeau & Cham- pagne, Buckingham.	2 " ..	10		
" 15	" " ..	40971	Lahaie & Son, Bucking- ham.	2 " ..	10		

DISTRICT OF OTTAWA—

April 20	Barley (Pearl).	63603	A. B. Scott & Co., Smith's Falls.	1 lb..	8		Robertson, Nicolle, Smith's Falls.
" 20	" (Pot)..	63007	P. J. Doyle, Perth.	1 " ..	5		Unknown
" 30	" " ..	63643	L. Mallette, Murray St., Ottawa.	2 " ..	10		S. J. Major, Ltd., Ottawa.
May 4	" (Pearl).	63649	J. P. Lapensee, Albert St., Ottawa.	2 " ..	15		Provost & Allard.
" 4	" (Pot).	63650	A. Stein, Albert St., Ottawa.	2 " ..	10	Unknown	Unknown
" 5	" (Pearl).	63656	Cherry & Craig, 1184 Wellington St., Ottawa.	1 " ..	8		F. J. Castle Co., Ottawa.
" 5	" (Pot)..	63657	H. Richardson, 1087 Wellington St., Ottawa.	2 " ..	14		Unknown

DISTRICT OF KINGSTON—

Apr. 29	Barley (Pot)..	68021	James Crawford, Kingston	1 lb .	5		Geo. Robertson & Son, King- ston.
" 29	" " ..	68022	J. R. B. Gage, Kingston..	1 " ..	5		Andrew McLean, Kingston.
" 29	" " ..	68023	G. D. Valleau, Kingston..	1 " ..	5		Robertson & Nicolle, King- ston.
4	" " ..	68024	Q. G. Vennilyea, Belleville	1 " ..	5		J. Sloan & Co., Belleville.

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BARLEY (POT AND PEARL.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.	p. c.	p. c.				
.....		1.26	0.08	.....	.....	58135	
.....		1.12	0.04	.....	.....	58136	
.....		1.24	0.07	.....	.....	58137	
.....		1.15	0.05	.....	.....	58138	
.....		0.82	0.01	.....	.....	58139	
.....		0.97	0.05	.....	.....	57936	
.....		1.16	0.06	.....	.....	57937	
.....		1.15	0.07	.....	.....	57938	
.....		1.33	0.07	.....	.....	40970	
.....		1.09	0.04	.....	.....	40971	

J. A. RICEY, INSPECTOR.

.....		0.83	0.05	.....	.....	63603	
.....				.....	.....	63607	
.....				.....	.....	63643	
.....		0.85	0.04	.....	.....	63649	
.....		1.18	0.06	.....	.....	63650	
.....		0.92	0.04	.....	.....	63656	
.....		1.07	0.06	63657	

JAMES HOGAN, INSPECTOR.

.....		1.39	0.06	68021	
.....		0.80	0.03	68022	
.....				68023	
.....		1.10	0.06	68054	

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BULLETIN No. 329—

Date of Collection.		Nature of Sample.	No. Sample.	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
					Quantity.	Cost.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—								
1915.								
May	4	Barley (Pot)..	68025	F. O. Diamond & Son, Belleville.	1 lb..	5	.....	J. Sloan & Co., Belleville
"	4	" " "	68026	Ed. A. Kellaway, Belleville.	1 " "	5	.....	J. E. Walmsley, Belleville.
"	4	" " "	68027	H. A. Fairfield, Belleville.	1 " "	5	.....	White Swan Ltd Toronto.
"	4	" " "	68028	M. C. Nicols, Cobourg....	1 " "	5	.....	Eby Blain, Toronto.
"	4	" " "	68029	The Thompson MacDonold, Cobourg.	1 " "	5	.....	Larkins Ince Co. Pererboro.
"	5	" " "	68030	F. H. Brown, Port Hope.	1 " "	8	.....	MacDonald & Morris Co., Oshawa.

DISTRICT OF TORONTO—

May	11	Barley (Pearl)	67049	S. M. Warriner, Stouffville.	1 lb..	8	.....	Thos. Kinnear & Co., Toronto.
"	11	" (Pot)..	67050	G. W. Resor, Markham..	1 " "	5	.....	Unknown.
"	12	" (Pearl)	67051	Dobson & Grosby, Uxbridge.	1 " "	10	.....	" .....
"	12	" (Pot)..	67052	F. C. Collacutt, Port Perry.	1 " "	6	.....	" .....
"	13	" " "	67054	J. G. French, Beaverton.	1 " "	5	.....	Eby Blain, Toronto.
"	14	" " "	67055	The Georgian Bay Lumber Co., Waubaushe.	1 " "	6	.....	Unknown.....
"	15	" " "	67056	J. A. Gill, Midland.	2 " "	10	.....	" .....
"	19	" (Pearl)	67057	Chas. Godfrey, 371 Spadina Ave., Toronto.	2 " "	16	.....	Jos. Prager, Toronto.
"	20	" " "	67058	Girvin & Robinson, 1556 Queen St., West, Toronto.	2 " "	16	.....	Unknown.

DISTRICT OF HAMILTON—

April	26	Barley (Pearl).	66978	Burt Bros., Elora.....	2 lb..	10	.....	Unknown.....
"	26	" (Pot) ..	66979	Pritchard & Lunn, Fergus	2 " "	10	.....	Geo. E. Bristol & Co., Hamilton.
"	27	" (Pearl).	66980	W. J. Gilroy, Mount Forest.	2 " "	10	.....	Unknown
"	28	" (Pot) ..	66981	Stewart & Hucks, Ham-stow.	2 " "	10	.....	McLauchlan & Sons, Owen Sound.
"	29	" " "	66982	F. Weiler, Mildmay.	2 " "	10	.....	Stratford Wholesale Grocery, Stratford.
"	29	" " "	66983	M. J. Campbell, Paisley..	2 " "	10	.....	A. M. Smith & Co., London.

SESSIONAL PAPER No. 14

BARLEY (POT AND PEARL).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

Concluded.

	p. c.	p. c.	p. c.			
.....		1.06	0.05	.....	68025	
.....		1.04	0.06	.....	68026	
.....		1.02	0.07	.....	68027	
.....		0.99	0.05	.....	68028	
.....		1.04	0.06	.....	68029	
.....		1.09	0.07	.....	68030	

H. J. DAGER, INSPECTOR.

.....		0.85	0.05	.....	67049	
.....		1.18	0.08	.....	67050	
.....		0.83	0.05	.....	67051	
.....		1.03	0.04	.....	67052	
.....		1.13	0.07	.....	67054	
.....		1.26	0.08	.....	67055	
.....		1.98	0.06	.....	67056	
.....		0.71	0.03	.....	67057	
.....		0.77	0.03	.....	67058	

H. J. DAGER, ACTING INSPECTOR.

.....		1.11	0.06	.....	66978	
.....				.....	66979	
.....		1.21	0.05	.....	66980	
.....		1.04	0.07	.....	66981	
.....		1.07	0.06	.....	66982	
.....		1.11	0.06	.....	66983	

7 GEORGE V, A. 1917

BULLETIN No. 329—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1915.							
April 30	Barley (Pearl)	66984	Liebeck & Heinmiller, Chesley.	2 lbs.	10	.....	Unknown
" 30	" "	66985	D. J. Cunningham, Owen Sound.	2 " ..	20	.....	W. T. Harris & Co., Ltd., Owen Sound.
May 4	" "	66986	Austen & Grice, Oakville.	2 " ..	20	.....	John Sloane & Co., Toronto.
" 4	" "	66987	Hicks & Bamford, Burlington.	2 " ..	14	.....	Macpherson Glasses & Co., Hamilton.

DISTRICT OF WINDSOR—							
April 21	Barley (Pearl).	54776	M. Williams, Seaforth.....	1½ lbs.	8	.....	E. Adams & Co., London.
" 21	" (Pot) .	54777	H. Sivins, Seaforth.	1½ "	8	.....	T. B. Escott & Co., London.
" 21	" " ..	54778	Cardno Bros., Seaforth....	1½ "	8	Archibald M. Co., Woodstock.	.....
" 22	" " ..	54780	Sproat & Sproat, Seaforth	1½ "	9	"	.....
" 22	" " ..	54783	W. R. Smith, Seaforth....	1½ "	8	Seaforth M. Co., Seaforth.	.....
" 22	" " ..	54785	Geo. C. Sawyer, Mitchell.	1½ "	8	.....	Stratford Wholesale Grocers, Stratford.
" 22	" " ..	54786	Ed. Kern, Mitchell.....	1½ "	8	.....	J. Sloan & Co., Berlin.
" 22	" " ..	54787	W. J. Sevoy, Mitchell....	1½ "	8	.....	Unknown . .
" 23	" " ..	54792	Cappa & Nethercott, St. Marys.	1½ "	8	.....	Elliott & Marr, London.

DISTRICT OF MANITOBA—							
April 26	Barley (Pearl).	61311	A. S. Coyle, Sargent Ave., Winnipeg.	2 lb..	15	.....	.....
" 26	" (Pot)..	61312	B. Arnason, Sargent Ave., Winnipeg.	2 " ..	15	.....	.....
" 27	" " ..	61313	S. Myers, Ellice St., Winnipeg.	2 " ..	10	.....	.....
" 27	" (Pearl).	61314	E. Feir, Ellice St., Winnipeg.	2 " ..	20	.....	.....
May 10	" (Pot)..	61315	J. A. McDowall, Portage Ave., Winnipeg.	2 " ..	10	.....	.....
" 10	" " ..	61316	John M. McMillan, Portage Ave., Winnipeg.	2 " ..	15	.....	.....
" 10	" " ..	61317	Arney Bros., Portage Ave., Winnipeg.	2 " ..	15	.....	.....
" 10	" (Pearl).	61318	The Wesley Grocery, 547 Portage Ave., Winnipeg.	2 " ..	15	.....	.....
" 11	" " ..	61319	Rockwood Store, 476 Portage Ave., Winnipeg.	1 " ..	20	.....	.....
" 11	" " ..	61320	H. E. Weldon & Co., Portage Ave., Winnipeg	2 " ..	15	.....	.....

SESSIONAL PAPER No. 14

BARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

Concluded.

	p. c.	p. c.	p. c.				
.....		1.06	0.04	.....	.....	66984	
.....		1.02	0.03	.....	.....	66985	
.....		0.77	0.07	.....	.....	66986	
.....		0.84	0.05	.....	.....	66987	

JOHN TALBOT, INSPECTOR.

.....				.....	54776	
.....		1.87	0.07	Contains 8% rice grains	54777	
.....		1.13	0.05	.....	54778	
.....		1.45	0.08	.....	54780	
.....				.....	54783	
.....		1.00	0.06	.....	54785	
.....		1.03	0.06	.....	54786	
.....		1.00	0.07	.....	54787	
.....		1.01	0.04	.....	54792	

A. C. LARIVIÈRE, INSPECTOR.

.....		0.79	0.03	.....	61311	
.....		0.98	0.05	.....	61312	
.....		1.49	0.09	.....	61313	
.....		0.90	0.04	.....	61314	
.....	10.3	1.48	0.12	.....	61316	
.....	10.7	1.14	0.08	.....	61317	
.....	10.8	0.92	0.02	.....	61318	
.....	10.5	1.01	0.04	.....	61318	
.....	10.8	0.58	0.02	.....	61319	
.....	10.6	0.90	0.02	.....	61320	

7 GEORGE V, A. 1917
BULLETIN No. 329—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1915.							
April 26	Barley (Pearl).	66352	N. E. Pletch, Swift Current.	2 lbs.	15	.....	Swift Current Grocery.
" 27	" " "	66353	M. Moncrieff, Swift Current.	2 " "	10	.....	" "
" 27	" " "	66354	Bertins, Ltd., Swift Current.	2 " "	20	.....	Codville Co., Moosejaw.
" 28	" (Pot) ..	66363	Thomas Bros., Gull Lake.	2 " "	15	.....	Moose Grocery, Moosejaw.
" 28	" " "	66364	J. S. Tweed, Gull Lake ..	2 " "	15	.....	Codville Co., Moosejaw.
" 29	" " "	66368	Chevalier & Pollock, Maple Creek.	2 " "	15	.....	Medicine Hat Grocery Co.
" 29	" " "	66369	Cool Bros., Maple Creek.	2 " "	15	.....	Swift Current Grocery Co.
" 29	" " "	66370	Dixon Bros., Maple Creek.	2 " "	15	.....	Medicine Hat Grocery Co.
May 5	" " "	66386	H. T. Baker Co., Lumsden.	2 " "	10	.....	Campbell, Wil- son & Strath- dee, Regina.
" 5	" " "	66387	Balfour Bros., Lumsden ..	2 " "	20	.....	Unknown ..

DISTRICT OF ALBERTA—

April 30	Barley (Pearl).	52130	Hallair & Aldridge, Ed- monton.	2 lbs.	20	Campbell, Wilson & Horne, Edmon- ton.	.....
" 30	" " "	52131	Johnstone Walker, Ltd., Edmonton.	2 " "	20	Brackman Ker, Ed- monton.	.....
" 30	" (Pot) ..	52132	" " "	2 " "	15	" "	.....
May 18	" " "	52133	Hudson's Bay Co., Cal- gary.	2 " "	8	Brackman Ker, Calgary.	.....
" 18	" (Pearl).	52134	" " "	2 " "	16	" "	.....
June 16	" " "	52135	Spencer Todd, Ltd., Med- icine Hat.	2 " "	20	.....	Med. Hat Gro- cery.
" 16	" " "	52136	Taylor Bros., Medicine Hat.	2 " "	20	.....	" "
" 16	" (Pot) ..	52137	" " "	2 " "	16	.....	" "
" 17	" " "	52138	Geo. Kerr, Lethbridge ..	2 " "	20	Brackman Ker, Calgary.	.....
" 17	" (Pearl).	52139	" " "	2 " "	20	" "	.....

SESSIONAL PAPER No. 14

BARLEY (POT AND PEARL).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.	—		
		Total.	Insoluble.				

L. H. HALL, INSPECTOR.

	p. c.	p. c.	p. c.			
.....		0.88	0.05	.....		66352
.....		0.92	0.05	.....		66353
.....		0.74	0.02	.....		66354
.....		1.04	0.05	.....		66363
.....					66364
.....		1.30	0.08	.....		66368
.....		1.19	0.07	.....		66369
.....		0.92	0.06	.....		66370
.....		0.90	0.06	.....		66386
.....		1.22	0.08	.....		66387

A. W. R. MARKLEY, INSPECTOR.

.....	14.85	1.20	0.02	.....		52130
.....	15.31	1.04	0.02	.....		52131
.....	15.28	1.16	0.04	.....		52132
.....	15.13	0.97	0.02	.....		52133
.....	15.14	1.09	0.03	.....		52134
.....	15.57	1.04	0.03	.....		52135
.....	15.06	0.80	0.04	.....		52136
.....	15.03	1.48	0.09	.....	Contains pieces of straw	52137
.....	15.00	1.26	0.06	.....		52138
.....	15.06	0.82	0.03	.....		52139

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1915.							
April 26	Barley (Pearl).	61799	Co-op. Italiana Assn. Trail.	2 lbs.	20	.....	Kelly Douglas & Co., Vanc.
" 26	" (Pot)..	61800	City Grocery, Trail	2 " ..	20	.....	"
" 26	" (Pearl).	61807	Trail Grocery, Trail	2 " ..	20	Brackman Ker Co., Victoria.	.....
May 20	" (Pot)..	61814	Ira R. Manning, Cranbrook.	2 " ..	15	.....	West. Can. F. M., Calgary.
" 20	" (Pearl).	61815	" " "	2 " ..	20	.....	"
" 20	" "	61816	J. Manning, Cranbrook.	2 " ..	15	.....	W. H. Malkin & Co., Vanc.
" 20	" (Pot)..	61822	Sure Grocery Co., Cranbrook.	2 " ..	15	.....	Cranbrook Jobbers, Ltd.
June 10	" (Pearl).	61828	A. Hobson, Revelstoke.	2 " ..	20	West. Can. F. M., Winnipeg.	.....
" 10	" (Pot)..	61833	G. W. Bell, Revelstoke.	2 " ..	20	.....	W. H. Malkin Co., Vanc.
" 10	" (Pearl).	61834	L. C. Masson, Revelstoke.	2 " ..	20	.....	"

DISTRICT OF VANCOUVER—

May 22	Barley (Pearl)	55256	J. Lowenthal, 2243 Main St., Vancouver.	2 lbs.	20	Kelly, Douglas & Co., Vancouver.	.....
" 22	" "	55257	Barker & Miller, 233 Main St., Vancouver.	3 " ..	20	"	.....
" 22	" (Pot)	55258	Mt. Pleasant Grocery, 2425 Main St., Vancouv.	2 " ..	20	Unknown	.....
" 22	" "	55259	W. H. Parsons, 2539 Main St., Vancouver.	2 " ..	20	"	.....
" 22	" (Pearl)	55260	Efford Bros., 246 Broadway E., Vancouver.	2 " ..	15	W. N. Malkin Co., Vancouver.	.....
" 22	" "	55261	A. G. Page, 3024 Westminster Rd., Vancouver	2 " ..	20	Kelly, Douglas & Co., Vancouver.	.....
" 22	" "	55262	Cochrane & Elliott, 657 15th Ave., Vancouver.	2 " ..	20	Leeson, Dickie, Gross & Co., Vanc.	.....
" 22	" "	55263	G. W. Bennett, 761 Kingsway, Vancouver.	2 " ..	20	A. Macdonald & Co., Vancouver.	.....
" 25	" (Pot)	55264	T. F. McDowell, 938 Granville St., Vancouver.	2 " ..	20	Kelly, Douglas & Co., Vancouver	.....
" 26	" "	55265	J. P. Sinclair, 2954 Commercial Drive, Vanc.	2 " ..	15	Unknown	.....

SESSIONAL PAPER No. 14

BARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.				
.....	12.95	1.10	0.28	.....	Microscope shown min- eral matter.	61799	Faced with talc. Adul- terated.
.....	13.85	1.25	0.05	.....		61800	
.....	14.12	1.20	0.03	.....		61807	
.....	14.29	0.75	0.02	.....		61814	
.....	13.96	0.88	0.02	.....		61815	
.....	13.84	0.77	0.02	.....		61816	
.....	13.78	0.93	0.03	.....		61822	
.....	13.96	0.84	0.03	.....		61828	
.....	13.66	0.80	0.02	.....		61833	
.....	13.58	0.80	0.01	.....		61834	

E. J. MORGAN, INSPECTOR.

	p. c.	p. c.	p. c.				
.....	13.51	1.03	0.20	.....	Microscope shows min- eral matter.	55256	Faced with talc. Adul- terated.
.....	13.94	1.25	0.35	.....	" "	55257	
.....	14.60	1.01	0.11	.....		55258	
.....	15.07	0.96	0.03	.....		55259	
.....	14.36	0.84	0.01	.....		55260	
.....	14.21	1.07	0.06	.....		55261	
.....	14.51	1.01	0.02	.....		55262	
.....	13.80	1.09	0.26	.....	Microscope shows min- eral matter.	55263	Faced with talc. Adul- terated.
.....	14.08	0.86	0.02	.....		55264	
.....	13.79	1.48	0.63	.....	Microscope shows min- eral matter.	55265	Faced with talc. Adul- terated.

7 GEORGE V, A. 1917

BULLETIN No. 329—

Date of Collection.	Nature of Sample,	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1915.							
May 27	Barley (Pearl)	66713	Windsor Grocery Co., 817 Govt. St., Victoria.	2 lbs	20	Brackman Ker, Victoria.	.....
" 28	" (Pot)	66715	D. H. Ross & Co., 1317 Govt. St., Victoria.	2 " "	20	.....	Wilson Bros., Victoria.
" 31	" "	66719	West End Grocery, 1002 Govt. St., Victoria.	2 " "	20	.....	R. P. Rithet Co., Victoria.
June 1	" (Pearl)	66720	Copas & Young, 631 Fort St., Victoria.	2 " "	20	Brackman Ker, Victoria.	.....
" 8	" "	66721	Acton Bros., 1317 Douglas St., Victoria.	2 " "	20	"	.....
" 8	" "	66725	Erskine & Co., 861 Johnson St., Victoria.	2 " "	20	"	.....
" 9	" "	66726	H. O. Kirkham Co., 741 Fort St., Victoria.	2 " "	15	"	.....
" 9	" "	66731	Henry W. Driver, 83 rd Yates St., Victoria.	2 " "	20	.....	A. McDonald, Vancouver.
" 10	" (Pot)	66733	Fairfield Grocery, 259 Cook St., Victoria.	2 " "	20	Brackman Ker, Victoria.	.....
" 10	" (Pearl)	66734	The Cook St. Grocery, 1023 Cook St., Victoria.	2 " "	15	.....	R. P. Rithet & Co., Victoria..

SESSIONAL PAPER No. 14

BARLEY (POT AND PEARL).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash,		Facing.	—		
		Total.	Insoluble.				

D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.				
.....	13.56	0.77	0.02	.....	.....	66713	
.....	13.73	0.89	0.02	.....	.....	66715	
.....	13.70	1.12	0.01	.....	.....	66719	
.....	13.39	1.03	0.06	.....	.....	66720	
.....	13.75	1.07	0.01	.....	.....	66721	
.....	13.85	1.15	0.02	.....	.....	66725	
.....	13.68	0.98	0.01	66729	
.....	13.33	0.80	0.01	66731	
.....	13.78	1.13	0.02	66733	
.....	13.66	0.91	0.02	67734	

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APPENDIX U.

BULLETIN No. 330—BREAKFAST FOODS.

OTTAWA, January 17, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit herewith a report upon thirty-three samples of so-called Breakfast Foods. These are, for the most part, cereals which have been to some extent manufactured by heat, moisture, the addition of malt, sugar, etc. The changes brought about by these various treatments are generally very slight; if we regard the nutritive value merely. It may be that a somewhat readier digestibility than would result from the usual preparation of the cereal as a breakfast dish (by boiling with water and a little salt) may be justly claimed for these foods, and it is undeniable that certain of them possess characteristic and more or less well defined flavours which are approved by the palate.

It remains, however, that if we take their cost into consideration, they must be regarded as food luxuries. Dr. E. F. Ladd, Food Commissioner for North Dakota, has made a calculation based upon the results of work done at the North Dakota Agricultural Experiment Station, and demonstrating that, wheat costing \$1.80 per bushel, represents a selling price in the form of certain breakfast foods of \$27 (Bulletin No. 23, Vol. III, December, 1915). It must, of course, be left to the purchaser to judge whether he is prepared to pay so considerable an increase in price for the slight, and sometimes equivocal, increase in food value represented. The cost of all foods has become so greatly enhanced consequent upon world-wide disturbed conditions, that it is a duty to point out facts like the foregoing, for the guidance of those to whom economy is a matter of concern.

A very full discussion of this subject will be found in Inland Revenue Bulletin No. 84 (1902), in which appear the results of work upon 30 samples of Breakfast Foods, representing 11 different brands. In Bulletin 132 (1907) a further study of 99 samples, representing 18 different brands, will be found. The present report upon 33 samples indicates that a small number of new brands which have been placed on the market since 1907, differ in no essential feature from those previously reported.

A fairly correct notion of the relative nutritive values of these foods (assuming them to be perfectly digested and assimilated) may be obtained from inspection of the numbers in the column headed Calorific value per gram. It will be seen that, as in earlier reports above mentioned, this ranges from about 3,800 to 4,000.

There can be no doubt that oatmeal, preferably flaked or finely ground, and well-cooked by boiling, shows a food value which places it quite at the head of the list.

I beg to suggest publication of this report as Bulletin No. 330.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

7 GEORGE V, A. 1917

BULLETIN No. 330—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Sept. 9	Cereal Breakfast Food.	64211	Payzant & King, Halifax	1 pkg.	18	Cream of Wheat Co., Minneapolis.	Manufacturers
" 21	" ..	64212	J. L. Wikon & Co. Halifax.	1 "	10	Can. Postum Cereals Co., Windsor.	" ..
" 21	" ..	64213	R. B. Seeton & Co., Halifax.	1 "	19	Shredded Wheat..	" ..
" 22	" ..	64214	John Tobin & Co., Halifax.	1 "	10	Niagara Falls.	" ..
" 23	" ..	64215	Bauld Bros. Co., Ltd., Halifax.	1 "	12	Battle Creek Corn Flake Co., London, Ont.	" ..
						Quaker Oats Co., Peterboro.	" ..

DISTRICT OF MONTREAL—

Aug. 25	Breakfast Food.	67401	Jas. McShane, 146 Ottawa St., Montreal.	1 pkg.	28	Quaker Oats Co. ....	.....
" 23	" ..	67402	G. Brouillet, 195 Colborne Ave., Montreal.	1 "	10	Cream of Wheat Co. ....	.....
" 25	" ..	67403	J. Thibault, 98 Murray St., Montreal.	1 "	10	Kelloggs Co. ....	.....
" 25	" ..	67404	P. Collins, 87 Ottawa St., Montreal.	1 "	15	The H. O. Mills Co	.....
" 25	" ..	67405	F. J. McCrory, 73 Ottawa St., Montreal.	1 "	13	Can. Shredded Wheat Co.	.....

DISTRICT OF TORONTO—

Aug. 8	Malt Breakfast Food.	69902	C. Webb, 18 Vaughan Rd., Toronto.	1 pkg.	29	Malted Cereals Co., Burlington, Vt.	.....
" 10	Roman Meal..	69903	M. D. Turner, 683 St. Clair Ave., Toronto.	1 "	25	Roman Meal Co., Toronto.	.....
" 12	Hecker's Farina.	69904	The Robt. Simpson Co. Ltd., Queen & Yonge Sts., Toronto.	1 "	13	Hecker Cereal Co., Toronto.	.....
" 13	Gusto	69905	R. E. Willis, 1891 Dundas St. Toronto.	1 "	10	The H. O. Co., Hamilton.	.....
" 13	Robin Hood Porridge Oats	69906	R. Paget & Co., 1805 Dundas St., Toronto.	1 "	10	Robin Hood Mills, Moose Jaw.	.....

DISTRICT OF OTTAWA—

Dec. 20	Roman Meal..	70611	H. Richardson, Ottawa...	3 pkgs	75	.....	.....
" 21	" ..	70618	J. Bambrick, Ottawa....	3 "	30	.....	.....
" 22	" ..	70621	H. Racine, Ottawa. ..	3 "	30	Roman Meal Co., Toronto.	.....

SESSIONAL PAPER No. 14

BREAKFAST FOODS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.							Microscopical Examination.	Calorific Value per Gram.	No. of Sample.
	Total Proteids N \times 6.25.	Moisture.	Petrole- um other ex- tract. (Fat.)	Alcohol Extract, (Sugars, &c.)	Water Extract, (Dextrines.)	Crude Fibre.	Total Ash.	Starch by differ- ence.		

R. J. WAUGH, INSPECTOR.

Cream of Wheat.	11.56	10.45	0.83	1.37	6.80	0.35	0.71	67.93	3955.4	64211
Port Toasties....	8.00	6.25	0.30	0.75	24.65	0.12	2.77	56.17	3925.8	64212
Shredded Wheat.	10.19	10.20	0.99	1.70	8.25	2.16	1.59	64.92	3837.8	64213
Corn Flakes.	7.50	9.60	0.25	2.00	28.30	0.20	1.39	50.70	3870.2	64214
Puffed Rice.....	6.19	9.85	0.25		13.15	0.20	0.42	69.94	3878.2	64215

D. J. KEARNEY, INSPECTOR.

Quaker Oats...	17.5	8.40	3.44		8.06	1.25	1.62	59.73	Oat Starch	4199.6	67401
Cream of Wheat.	12.4	10.92	0.89		5.55	0.11	0.37	69.76	Wheat Starch	3977.4	67402
Toasted Corn Flakes.	8.1	9.28	0.27		30.45	0.36	1.36	50.18	Broken Maize Starch.	3889.4	67403
Toasted Wheat Flakes.	10.5	9.36	1.37		36.10	1.32	2.70	38.65	Granules broken beyond identifi- cation.	3886.4	67404
Shredded Wheat.	11.0	9.40	1.35		20.83	1.94	2.08	53.40	Wheat Starch	3838.2	67405

H. J. DAGER, INSPECTOR.

Compound of Wheat & Malt.	14.7	9.55	1.56		9.80	1.52	1.40	61.47	Broken Wheat Starch	4005.7	67802
Roman Meal	14.8	10.84	2.16		13.87	1.35	2.94	49.04	Appar. Wheat Rye & Lensesed	3900.0	67803
Hecker's Farina	12.0	11.36	0.88		9.58	0.57	0.45	65.15	Wheat Starch	3920.1	67804
Gusto	9.6	10.40	1.18		33.71	0.91	2.78	41.22	Granules much broken.	3929.0	67805
Porridge Oats.	10.6	9.08	1.01		8.12	0.75	1.54	50.36	Oat Starch	4200.0	67806

J. A. RICKEY, INSPECTOR.

	12.0	10.00	2.40		15.70	5.24	3.10	31.00	Appar. Wheat, Rye & Lensesed	3787.7	70001
	13.7	9.96	2.58		15.40	5.05	2.80	30.74		3811.7	70008
	13.7	9.96	2.70		15.20	5.00	2.80	30.10		3820.1	70003

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BULLETIN No. 330—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF LONDON—

1915.							
July 27	Breakfast Food.	54625	Kerr's Grocery, London...	3 pkgs	39	Quaker Oats Co., Peterboro.	...
" 27	" ..	54626	B. L. Smith, London....	"	39	W. H. Kellogg, Battle Creek.	.....
" 27	" ..	54627	R. J. Denny, London. ...	"	45	Can. Postum Co., Windsor.	.....
" 27	" ..	54628	Thos. Shaw, London.....	"	40	Can. Shredded Wheat, Niagara Falls.	.....
" 27	" ..	54629	P. Sands, London.....	"	30	Battle Creek Toasted Corn Flakes Co., London, Ont.	.....

DISTRICT OF MANITOBA—

Aug. 13	Force.....	61351	J. H. Grainger Co., Cor. Westminster & Evanson, Winnipeg.	1 pkg.	15	H. O. Mills Co., Hamilton.	.....
" 14	Corn Flakes..	61352	" " ..	1 "	15	Krinkle Co., Ontario.	.....
" 14	Shredded Wheat.	61353	" " ..	1 "	15	Shredded Wheat Co., Niagara.	.....
" 14	Grape Nut....	61356	" " ..	1 "	15	Can. Postum Co., Windsor, Ont.	.....
" 14	Puffed Wheat.	61357	" " ..	1 "	15	Quaker Oats Co., Peterboro.	.....

DISTRICT OF VANCOUVER—

July 15	Cereal Breakfast Food.	55295	D. McGregor, Cor. Bute and Pender Sts., Vancouver.	1 pkg.	15	Kellogg's Toasted Corn Flakes Co., Battle Creek.	.....
" 15	" ..	55296	" " ..	1 "	15	Can. Shredded Wheat Co., Niagara Falls.	.....
" 15	" ..	55297	W. Conling, 1374 Pender St., Vancouver.	1 "	15	Battle Creek Toasted Corn Flakes Co., London, Ont.	.....
" 15	" ..	55298	Frank Wright, 645 Seymour St., Vancouver....	1 "	15	Can. Postum Cereal Co., Windsor.
" 16	" ..	55299	N. James Granville Market, Vancouver.	1 "	15	Quaker Oats Co., Chicago.

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BREAKFAST FOODS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								Microscopical Examination.	Calorific Value per Gram	No. of Sample.
	Total Proteids N x 6.25.	Moisture.	Petrolie Extract. (Fat.)	Alcohol Extract. (Sugars.)	Water Extract. (Dextrines.)	Crude Fibre.	Total	Starch by difference.			

JOHN TALBOT, INSPECTOR.

Puffed Wheat...	15.0	8.88	1.59	...	31.4	2.23	1.67	39.28	Granules much broken.	4001.4	54625
Krumbles. All Wheat.....	12.2	8.58	0.86	....	19.4	1.46	2.47	55.09	Wheat Starch much broken.	3929.2	54626
Grape Nuts.....	12.0	6.74	0.46	...	41.2	0.91	1.64	37.05	Granules much broken.	4037.2	54627
Shredded Wheat	11.1	10.28	1.20	....	20.4	1.97	1.16	53.44	Wheat Starch...	3907.8	54628
Toasted Corn Flakes.	8.3	9.78	0.24	.....	25.7	0.30	0.98	54.70 (Σ 21)	Granules broken, Maize.	3888.8	54629

J. B. COSGROVE, TEMPORARY INSPECTOR.

.....	9.10	6.95	1.46	7.74	27.18	2.85	2.40	42.32	.....	3916.7	61351
.....	8.23	7.40	0.54	8.66	29.52	0.50	0.80	44.80	.....	4025.9	61352
.....	9.54	8.10	1.54	2.34	9.06	2.26	1.30	65.86	.....	3951.0	61353
.....	11.29	4.70	0.66	19.14	28.23	1.43	1.60	32.95	.....	4100.9	61356
.....	14.88	4.80	2.06	6.86	30.73	2.25	1.70	36.72	.....	4190.5	61357

E. J. MORGAN, INSPECTOR.

Toasted Wheat Biscuit.	11.97	10.58	0.68	11.50	12.92	2.05	3.04	47.34	Wheat Starch.	3783.4	55295
Shredded Whole Wheat.	9.63	12.04	0.78	2.58	16.61	2.20	1.56	54.60	"	3739.9	55296
Toasted Corn Flake.	6.77	13.26	0.14	7.82	20.45	0.35	1.88	49.33	Apparently Maize.	3671.6	55297
Grape Nuts ..	10.20	10.70	0.76	14.56	36.37	1.10	1.94	24.37	Wheat and Barley Starch	3835.1	55298
Pettijohn's Breakfast Food.	7.29	13.22	1.40	4.02	7.94	1.40	1.48	63.25	Wheat Starch.	3719.1	55299

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APPENDIX V.

BULLETIN No. 331—TURPENTINE, AS A PAINT MATERIAL.

OTTAWA, January 8, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—By an Order in Council of June 6, 1912, Turpentine for uses in the Arts, was defined as follows:—

PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE, OTTAWA.

THURSDAY, the 6th day of June, 1912.

PRESENT

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL :

His Royal Highness the Governor General in Council, in virtue of the provisions of Section 27 of Chapter 133, Revised Statutes of Canada, 1906, "An Act respecting the Adulteration of Food and other Articles," is pleased to order as follows:—

Turpentine is hereby added to Schedule 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

STANDARDS FOR TURPENTINE.

I. When turpentine is sold as a drug, for medicinal purposes or in the order of a physician, it shall meet pharmacopoeal requirements as provided by section 7 of the said Act.

II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

(1) It shall be entirely free from mineral oil.

(2) Unless sold as wood turpentine, it shall absorb not less than 540 times its weight of iodine (Hahl Solution and Method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by same method.

(3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.

(4) The refractive index of this residue shall be not less than 1.4950 at 20°C.

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(5) The refractive index of the sample at 20°C. shall lie between 1.4680 and 1.4730.

(6) The specific gravity of the sample at 20°C. shall not be less than 0.860.

(7) The initial boiling point shall not be lower than 150°C. under ordinary atmospheric pressure.

(8) At least 75 per cent by volume shall distil below 160°C.

(9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUDREAU,
Clerk of the Privy Council.

No systematic inspection of the article, as thus defined, has been made since the date of the Order in Council as above. An extensive study of the subject was made in 1910, and the results are published in Bulletin No. 211. At that time the only legal standards existent had regard to turpentine (Oil of Turpentine) as a drug; and although many of the samples then reported failed to meet the requirements as given in the British Pharmacopoeia, it was considered inadvisable to apply these very stringent constants to turpentine sold for purposes other than medicinal.

The present inspection embraces careful and, in most cases exhaustive work upon two hundred and twelve (212) samples which were purchased throughout the Dominion in July, August and September of last year; and were specially obtained from dealers in paint materials. They are therefore to be judged by the standards fixed for turpentine supplied for other uses than as a drug. Fifty (50) of these samples fail to meet the above requirements and must be described as adulterated under the Act. (*See note on page 5.*)

A very large number of complaints from users of turpentine have been received in recent years; and the results of this inspection indicate that ample ground for complaint exists. The chief adulterant is found to be a petroleum product; but rosin oil is also used for the purpose.

Wood turpentine, that is the product obtained by distillation from résinous woods, as distinguished from that obtained in the regular way from the gum of various species of pine, cannot be regarded as an adulteration, provided that it is properly described when offered for sale. It possesses in a high degree, the desirable properties of true turpentine, but is not, in every respect, its equal for paint purposes. Samples indicating (by their lower iodine number, and other characters) admixture with wood turpentine, have not been judged as adulterated in this report. It must be noted, however, that vendors are not as careful as they should be in properly distinguishing these articles from true (gum) turpentine.

I would respectfully recommend publication of this report as Bulletin No. 331.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

OTTAWA, March 22, 1916.

NOTE.—The term adulteration, as used here, must be understood to mean that the sample does not meet the standards for turpentine fixed by Order in Council of June 6, 1912.

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Section 21 of the Adulteration Act, as this appears in the Revised Statutes of 1906, has been introduced into this Act from an older Act of 1894, entitled "An Act in restraint of Fraudulent Sale or Marking."

Section 21, is as follows:—

"No person shall mark, brand or label any article or any package containing any article mentioned in the first column of the fourth schedule to this Act, with the word Pure, Genuine, or any word equivalent thereto, or sell, or offer or expose for sale, any such article or package so marked, branded, stamped or labelled, unless such article or the contents of such package are pure within the meaning of the second column of the said schedule."

It will be noted that, unless the article has been sold as *Pure* or *Genuine*, the penalties imposed by Section 38 (Section 3 of the Act in restraint of Fraudulent Marking) do not apply.

The samples of turpentine herein reported were simply sold as turpentine, and not as pure turpentine or genuine turpentine. It is reasonable to interpret the word turpentine, used simply, as meaning pure or genuine turpentine; but the technical difficulty introduced by the peculiar wording of section 21, makes procedure uncertain, and perhaps inadvisable until such time as an amendment of the Act is secured.

BULLETIN No. 331—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1915.							
Sept.	Turpentine.	64256	Wm. Stairs Son & Morrow, 1½ pt. Halifax.	15	Unknown	Carritte Patterson Co., Halifax.	
"	"	64257	Wm. Robertson & Son, Halifax. 1½ "	15	Georgia Turpentine Co.,	J. C. Calder, Agent, Halifax.	
"	"	64258	A. M. Bell & Co., Halifax. 1½ "	15	"	Mfr.	
"	"	64259	Jas. Simmonds, Ltd., Halifax 1½ "	15	"	J. C. Calder, Agent, Halifax.	
"	"	64260	Geo. E. Smith & Co., Halifax. 1½ "	15	Unknown	"	

DISTRICT OF NOVA SCOTIA—W. A. PETIPAS, TEMPORARY INSPECTOR.

Aug.	Turpentine.	63841	J. S. Fraser, New Glasgow. 3 pts.	45	Unknown	DeB. Carritte, St. John.	
"	"	63842	Thompson & Sutherland, New Glasgow. 3 "	38	Imperial Oil Co., Halifax.	Mfr.	
"	"	63843	Bent & Cahoon, New Glasgow. 3 "	37	Unknown	DeB. Carritte, St. John.	

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DISTRICT OF CAPE BRETON—E. F. MCKEEN, INSPECTOR.

July 25 Turpentine	6814 C. P. Moore, Sydney	3 pds.	45	Georgia Turpentine Co., Montreal.
— 27 —	6816 Thompson Sutherland Sydney.	Co., 3 pds.	45	Imperial Oil Co.

DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.

July 1 Turpentine	6801 Frowse & Son, Murray Harbour, P.E.I.	3 pds.	35	Rogers Hardware Co., Charlottetown.
— 17 —	68064 S. W. Crabbe, Charlottetown, P.E.I.	3 "	30	Imperial Oil Co., Halifax.
— 17 —	68062 Fennell & Chandler, Charlotte- town, P.E.I.	3 "	35	DeB. Carritte, St. John.
— 18 —	68060 Rogers Hardware Co., Char- lottetown, P.E.I.	3 "	35	"
— 19 —	68067 P. J. Berrigan, Bonedun, Lot 31, P.E.I.	3 "	35	Rogers Hardware Co., Charlottetown.
— 20 —	68068 Russell Co., Marel, P.E.I.	3 "	35	"
— 21 —	68066 H. H. Co., Marel, P.E.I.	3 "	35	Rogers Hardware Co., Charlottetown.
— 24 —	68070 Matthew, McLean, Ltd., Souris, P.E.I.	3 "	35	"
— 24 —	68071 J. J. Hughes, Co., Ltd., Souris, P.E.I.	3 "	35	Rogers Hardware Co., Charlottetown.
— 26 —	68072 D. F. Keays, Bay field, P.E.I.	3 "	45	Stern Bros., Ltd., Souris, P.E.I.

DISTRICT OF NEW BRUNSWICK—JOHN C. FERGLUSON, INSPECTOR.

July 10 Turpentine	68115 Nat. Drug & Chem. Co., St. J.	3 pds.	40	Prov. Chem. Fort. Co., St. John.
Aug 3 —	68116 Richardson, Foster & Smith, St. J.	3 "	40	DeB. Carritte, St. John.
— 4 —	68117 F. A. Young, St. John.	3 "	40	Imperial Oil Co., St. John.
— 5 —	68120 T. McAlister & Sons, St. John.	3 "	40	DeB. Carritte.
— 9 —	68121 W. H. Thorne & Co., Ltd., St. J.	3 "	45	"
— 9 —	68122 H. L. & J. T. McIlwain, St. J.	3 "	40	Wood Bros., St. John.
— 10 —	68123 The New World Hardware Co., St. John.	3 "	45	DeB. Carritte, St. John.

BULLETIN No. 331—TURPENTINE

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Coat.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—JOHN C. FERGUSON, INSPECTOR.— <i>Concluded.</i>								
1915.								
Aug. 17	Turpentine.	66158	R. Chestnut & Son, Fredericton	3 pts.	45		Apothecary's Hall Co., Waterbury, Conn., U.S.A.	
" 24	"	66159	Sussex Mercantile Co., Sussex	3 "	45		Imperial Oil Co., St. John.	
" 26	"	66160	Sumner & Co., Moncton.	3 "	30		DeB. Carritte, St. John.	

DISTRICT OF QUEBEC PROVINCE—J. AUDET, O. BROCHU, N. CADIEUX AND S. GENDREAU, TEMPORARY INSPECTORS.								
July 7	Terebenthine.	3603	Dorchester Lumber, Ste. Ma-	3 pts.	21	Brit. Amer. Oil		
" 12	"	3610	J. L. Audet, St. Edward.	3 "	25	Dorchester Lumber, Ste. Malachie,		
" 13	"	3615	J. A. Cloutier, St. Odilon.	3 "	25	Herman Young, Quebec.		
" 16	"	3624	P. K. Prevot, Ste. Rose.	3 "	15	"		
" 17	"	3627	Gariépie, St. Prosper.	3 "	25	Fratingham, Montreal		
" 20	"	3584	Antoine Picard, St. Raphael.	1 pt.	20	Herman Young, Quebec.		
" 20	"	3588	Antoine Labrecque, St. Raphael.	1 "	25	"		
" 20	"	3593	L. A. Roy, St. Valier.	1 "	25	Jos. Lemieux, Quebec.		

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4401	Geo. Roy, St. Michel	3 bots.	25	Martin-Senour Co., Montreal.
4403	J. A. Lemieux, St. Michel	3 "	25	"
4408	Jos. Labonte, St. Charles	1 pie.	24	W. M. Doyle
4410	J. B. Lacroix, St. Charles	1 "	30	Sherwin-Williams Co., Ltd.
4413	J. E. Rouillard, St. Gervais	1 "	30	Imperial Oil
4416	Arthur Arsensault, St. Gervais	1 "	23	Can. Paint Co., Montreal
4423	Napoleon Aubin, St. Daniel	1 "	32	Dorchester Co.
259	Alexandre Villeneuve, St. Jérôme	3 Cho-	60	Georgia Turpentine Co.
300	Charlesmagne Taillon, St. Jérôme	3 "	50	Sherwin Williams
311	Adolard Seguin, St. Agathe des Monts	3 "	60	R. C. Jameson
313	F. Lalrecoque, St. Agathe des Monts	3 "	30	Prudhomme Montreal
322	Ernest Labare, St. Estache, comté des Deux Montagnes	1 "	15	Can. Paint Co.
2769	Anselme Provot, Montmagny	1 "	15
2771	George Roy, Berthier, Montmagny	1 "	15
2773	Alphonse Letourneau, St. Pierre	1 "	15
2777	Joseph Leduc, " "	1 "	15	Green Tree Co., Montreal
2783	Jos. Fournier, St. Thomas, Montmagny	1 "	15
2786	Alphonse Lebarge, Montmagny	1 "	15	Can. Paint Co., Montreal
2792	Lodger Gosselin, N. D. Rossaire, Montreal	1 "	15
2794	G. P. Letourneau St. Paul, Montmagny	1 "	15
2797	A. Blais & Co., Ltd. Ste. Phenée, Montmagny	1 "	15	Sherwin Williams, Montreal.
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BULLETIN No. 331—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF THREE RIVERS—DR. V. P. LAVALLÉE, INSPECTOR.								
1915.								
July	8 Turpentine.	69124	S. Costello, Joliette.	3 Pcs.	35	R. L. Jamieson, Montreal.		
"	"	69125	Edm. Wodon, Joliette.	3 "	38	Ramsay Sons, Ltd., Montreal.		
"	"	69126	Monahan Bros., St. Lin.	3 "	49	Imperial Oil Co., Montreal.		
"	"	69127	Alfred Henri, St. Lin.	3 "	45	Can. Paint Co., Montreal.		
"	"	69128	R. Charbonneau, St. Esprit.	3 "	45	" "		
"	"	69129	George Beaudoin, St. Esprit.	3 "	45	Can. Paint Co., Montreal.		
"	"	69130	W. Gendreau, St. Roch Achigan.	3 "	40	Conillard Auguste, Montreal.		
"	"	69131	L. Provost, L'Epiphanie.	3 "	30	Ramsay's Sons, Montreal.		
"	"	69132	T. A. Mercier, L'Epiphanie.	3 "	40	" "	L. H. Hebert, Montreal.	
"	"	69133	L. Pauzé, L'Assomption.	3 "	60	Can. Paint Co., Montreal.	Bedard & Co., L'Assomption.	
Aug.	7 "	69184	S. Costello, Joliette.	3 "	38	R. E. Jamieson, Montreal.		

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DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

Aug. 11	Tarpetone	6303	W. Bourque, Sherbrooke	3 Pts.	35			Sold as Georgia Turpentine
10	"	6304	N. Labrecque, Sherbrooke	3 "	40			
11	"	6305	Jas. Lacombe & Fils, Sherbrooke	3 "	40	Brit. Amer. Oil Co., Ltd.		
17	"	6306	Phoenix & Girard, Granby	3 "	25			
11	"	6307	Cadotte & Fils, Inc., Sherbrooke	3 "	45	Standard Oil Corporation		
12	"	6308	J. R. Deneau, Coaticook	3 3	40			
17	"	6309	A. Seguin, St. Hyacinthe	3 "	38	Brit. Amer. Oil Co., Ltd.		
18	"	6310	Beauséjour & Laline, St. Hyacinthe	3 "	38	Can. Paint Co., Ltd.		
18	"	6311	R. St. Pierre, St. Hyacinthe	3 "	37	Imperial Oil Co.		
18	"	6312	Carte, Verdun & Lussay, St. Hyacinthe	3 "	45	Can. Paint Co.		

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Aug. 6	Tarpetone	6745	The People's Hardware Co., 1523 St. Lawrence, Montreal <th>3 pts<th>45<td>Unknown</td><td></td><td></td></th></th>	3 pts <th>45<td>Unknown</td><td></td><td></td></th>	45 <td>Unknown</td> <td></td> <td></td>	Unknown		
6	"	6746 <th>Barron Hardware Co., 126 St. Lawrence, Montreal</th>	Barron Hardware Co., 126 St. Lawrence, Montreal	3 " <th>45<td>Imperial Oil Co.</td><td></td><td></td></th>	45 <td>Imperial Oil Co.</td> <td></td> <td></td>	Imperial Oil Co.		
10	"	6747 <th>Laurent, 1269 St. Lawrence, Montreal</th>	Laurent, 1269 St. Lawrence, Montreal	3 " <th>38<td>Can. Paint Co.</td><td></td><td></td></th>	38 <td>Can. Paint Co.</td> <td></td> <td></td>	Can. Paint Co.		
10	"	6748 <th>J. A. Tremblay, 1269 St. Lawrence, Montreal</th>	J. A. Tremblay, 1269 St. Lawrence, Montreal	3 " <th>37<td>Brit. Amer. Oil Co.</td><td></td><td></td></th>	37 <td>Brit. Amer. Oil Co.</td> <td></td> <td></td>	Brit. Amer. Oil Co.		
10	"	6749 <th>Bedford & Co., 1264 St. Lawrence, Montreal</th>	Bedford & Co., 1264 St. Lawrence, Montreal	3 " <th>45<td>Imperial Oil Co.</td><td></td><td></td></th>	45 <td>Imperial Oil Co.</td> <td></td> <td></td>	Imperial Oil Co.		
10	"	6750 <th>Baron, 230 St. Lawrence, Montreal</th>	Baron, 230 St. Lawrence, Montreal	3 " <th>38<td>Georgia Turpentine</td><td></td><td></td></th>	38 <td>Georgia Turpentine</td> <td></td> <td></td>	Georgia Turpentine		
10	"	6751 <th>A. Gauthier, 233 St. Paul, Montreal</th>	A. Gauthier, 233 St. Paul, Montreal	3 " <th>38<td>McArthur Irwin Co.</td><td></td><td></td></th>	38 <td>McArthur Irwin Co.</td> <td></td> <td></td>	McArthur Irwin Co.		
10	"	6752 <th>J. O. Denis, 230 St. Paul, Montreal</th>	J. O. Denis, 230 St. Paul, Montreal	3 " <th>40<td>Mount Royal Colour & Varnish Co.</td><td></td><td></td></th>	40 <td>Mount Royal Colour & Varnish Co.</td> <td></td> <td></td>	Mount Royal Colour & Varnish Co.		
10	"	6753 <th>Leves & Lalonde, 157 Church, Montreal</th>	Leves & Lalonde, 157 Church, Montreal	3 " <th>37<td>Georgia Turpentine Co.</td><td></td><td></td></th>	37 <td>Georgia Turpentine Co.</td> <td></td> <td></td>	Georgia Turpentine Co.		
10	"	6754 <th>The Raymond Hardware, Ltd., 241 N. Ave. Duane et W., Montreal</th>	The Raymond Hardware, Ltd., 241 N. Ave. Duane et W., Montreal	3 " <th>37<td></td><td></td><td></td></th>	37 <td></td> <td></td> <td></td>			
10	"	6755 <th>J. E. Jachet, Ltd., 246 N. Ave. Duane et W., Montreal</th>	J. E. Jachet, Ltd., 246 N. Ave. Duane et W., Montreal	3 " <th>37<td></td><td></td><td></td></th>	37 <td></td> <td></td> <td></td>			

BULLETIN No. 381—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.		
						Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

1915.							
July	Turpentine..	57991	L. P. Beaulne, Hawkesbury	3 pts.	35	Can. Paint Co. ....	.....
"	"	57992	J. G. Higginson, Hawkesbury..	3 "	25	Imperial Oil Co. ....	.....
"	"	57993	J. O. Phenix, Hawkesbury	3 "	45	Can. Paint Co. ....	.....
"	"	57994	A. Morand, Valleyfield	3 "	45	"	.....
"	"	57995	V. Leger, Valleyfield	3 "	35	.....	.....
"	"	57996	Besner & Chasle, Valleyfield.....	3 "	36	.....	.....
"	"	57997	N. Langevin, Valleyfield	3 "	35	.....	.....
"	"	57998	A. Lebeuf, Valleyfield	3 "	40	.....	.....
"	"	57999	Cote & Cie, St. Johns	3 "	30	McArthur Irwin. Montreal	.....
"	"	58000	C. O. Gervais & Fils, St. Johns..	3 "	35	.....	.....

SESSIONAL PAPER No. 14

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

July 16	Turpentine	51883	F. J. McVerry, Renfrew	3 pts.	35	Ottawa Paint Works, Ottawa.	Manufacturer.	.
"	"	51884	Devine & Legree, Renfrew.	3 "	45	R. C. Jamieson Co., Montreal.	"	"
"	"	51885	French & Co., Renfrew.	3 "	45	Can. Paint Co., Montreal.	"	"
"	"	51886	The Jennings Co., Renfrew.	3 "	40	Can. Oil Co., Toronto.	"	"
"	"	51887	A. G. Iobbe & Co., Brockville.	3 "	40	Georgia Turpentine Co., Montreal.	"	"
"	"	51888	B. D. Steacy, Brockville.	3 "	45	Can. Paint Co., Montreal.	"	"
"	"	51889	Penly & Co., Ltd., Pembroke.	3 "	45	E. Fielding & Son, Toronto.	"	"
"	"	51890	Griffin & Brennan, Amprior	3 "	37	Ottawa Paint Works, Ottawa.	"	"
"	"	51891	John S. Marr, Amprior.	3 "	35	Can. Paint Co., Montreal.	"	"
"	"	51892	W. J. Murhead, Carleton Place.	3 "	35	Ottawa Paint Works, Ottawa.	"	"
"	"	51893	Taylor Bros., Carleton Place.	3 "	40	Can. Paint Co. Montreal.	"	"
"	"	51894	H. H. Smart, Brockville.	3 "	30	Midland, Toronto.	"	"

DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

July 28	Turpentine	70251	Savage & Wightman, Kingston.	3 pts.	18	Sanderson & Percy Co., Toronto.	Manufacturer.	.
"	"	70252	Robinson Bros., Kingston.	3 "	27	J. H. Morin, Toronto.	"	"
"	"	70253	Chen & Co., Kingston.	3 "	15	"	"	Mixture of two kinds.
"	"	70254	John Laird & Sons, Kingston.	3 "	20	"	Dalton & Son, Kingston.	"
"	"	70255	W. J. Vance, Kingston.	3 "	20	"	H. W. Marshall, Kingston.	"
"	"	70256	H. W. Marshall, Kingston.	3 "	45	Georgia Turpentine Co., Montreal.	"	"
"	"	70257	J. H. Hunt & Co., Kingston.	3 "	35	"	Dalton & Son, Kingston.	"
"	"	70258	W. A. McFadyell, Kingston.	3 "	30	"	"	"
"	"	70259	Isaacs & Sons, Kingston.	3 "	45	J. A. Chay Co., New York.	"	"
"	"	70260	McKellay & Birch, Kingston.	3 "	30	Oil & Rawson Co., Savannah, Ga.	"	"

BULLETIN No. 331—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Co-t.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
1915.								
Aug. 8	Turpentine.	70074	W. A. Stephenson, 28 Vaughan Rd., Toronto.	3 bots.	25		Unknown	
" 10	"	70075	R. H. Hudson, 1199 St. Clair Ave., Toronto.	3 "	25		Can. Oils, Ltd., Toronto.	
" 11	"	70076	Toms Bros., 1612 Danforth Ave., Toronto.	3 "	25		Ottawa Paint Co., Toronto.	
" 13	"	70077	Nedon, Hall et & Johnson, 1623 Dundas St. W., Toronto.	3 "	30		Reynolds & Co., Toronto.	
" 14	"	70078	J. James Huggill, Weston.	3 "	35	Glidden Varnish Co., Toronto.		
" 16	"	70079	E. W. Chard, 324 College St., Toronto.	3 "	30	Sherwin-Williams Co., Ltd., Toronto.		
" 17	"	70080	T. H. Bayd, 2552 Queen St. E., Toronto.	3 "	25		Royal Commission, Toronto.	
" 17	"	70081	C. G. Bailey, 1858 Queen St. E., Toronto.	3 "	30		Imperial Oil Co., Ltd., Toronto.	
" 18	"	70082	G. H. Wall, 305 Roncesville Ave., Toronto.	3 "	25	Turpentine Producers, Ltd., Toronto.		
" 20	"	70083	J. W. Peacock, 1026 Queen St. W., Toronto.	3 "	25	"		

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

SESSIONAL PAPER No. 14

DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.

July 21	Turpentine.	70041	Atkinson, 285 St. Paul St., St. Catharines.	3 pts.	40	Pinchen & Johnson Co., Ltd., Toronto.	Arthur Irwin Co., Montreal.
20	"	70042	W. R. McKimie & Co., Niagara Falls Lake.	3	60		
41	"	70043	L. I. Hunt & Son, Thorndale.	3	35		Empire Commission Co., Toronto.
51	"	70044	H. Clark, 54 Erie Ave., ^{Niagara Falls} N. L.	3 bds.	30		Can. Paint Co., Ltd., Toronto.
61	"	70045	McEverts & Henry, 485 Victoria Ave., Niagara Falls.	3 "	35		Unknown.
8	"	70046	Pringle & Son, Niagara.	3 pts	45		Brit. Amer. Oil Co., Toronto.
21	"	70047	W. F. Guelone & Sons, Bolton.	3 bds.	35		Imperial Oil Co., Toronto.
3	"	70048	W. E. Anthony, Brampton.	3 "	60		Sanderson, Percy Co., Ltd., Toronto.
4	"	70049	J. W. Kennedy, Georgetown.	3	35		Unknown.
5	"	70050	Arcady, Ltd., 45 James St., Hamilton.	3	30		Wood, Valance Co., Ltd., Hamilton.

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Aug	70044	John & Mitchell, London.	3 bds.	20	West, Ross & Turpentine Co., Detroit.	Howden Hardware Co., London.
-	70046	Lane Hardware Co., London.	3	25	-	Taylor & Lawenstein & Co., Mobile, Ala.
-	70047	A. A. Vignone, London.	3	25	-	Howden Hardware Co., London.
-	70048	A. J. Spencer, Elora, London.	3	20	West, Ross & Turpentine Co., Detroit.	-
-	70049	P. E. Jones, London.	3	10	-	Howden Hardware Co., London.
-	70050	Paul & Kay, Woodstock.	3	20	-	International Varnish Co., Toronto.
-	70051	N. Fisher, Woodstock.	3	20	-	-
-	70052	Deacon & McLean, Woodstock.	3	25	West, Ross & Turpentine Co., Detroit.	-
-	70053	McMurry Hardware, St. Thomas.	3	12	Irwin Williams Co., Montreal.	-
-	70054	Jackson & Fyfe, St. Thomas.	3	20	-	Hobb Hardware Co., London.
-	70055	A. E. Campbell, St. Thomas.	3	17	-	-

BULLETIN No. 331—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.		

DISTRICT OF MANITOBA—J. B. COSGROVE, TEMPORARY INSPECTOR.

1915.	Aug.	4	Turpentine..	61325	Walter Johnson, 533 Sherbrooke, 3 pts.	60	Miller-Morse, Winnipeg.....	.....
"	"	4	"	61326	Andrews & Sons, Victor St., Win- 3 "	60	Can. Paint Co., Winnipeg ..	.....
"	"	4	"	61327	R. Steiman Hardware Co., 541 3 "	60	Can. Oil Co., Winnipeg.....	.....
"	"	4	"	61328	Selkirk Ave., Winnipeg 3 "	60	.....	.....
"	"	5	"	61331	Tulley & Davey, 1772 Main St., 3 "	60	.....	.....
"	"	5	"	61334	Winnipeg. 3 "	45	Wood, Valance Co., Winnipeg	.....
"	"	5	"	61333	R. Thornton, 262 Tache Ave., 3 "	60	G. F. Stephen, Winnipeg.....	.....
"	"	7	"	61334	Allaire & Blean, 568 Tache Ave., 3 "	60	Snowdon Oil Co., .....	.....
"	"	9	"	61338	H. R. Wood, Napinka..... 3 "	60	Sherwin, Williams, Winni- 3 "	.....
"	"	12	"	61339	Myers & Williams, 655 10th St., 3 "	60	peg. Merrick Anderson, Winnipeg	.....
"	"	12	"	61340	Brandon. 3 "	60	Scarfe & Co., Winnipeg .....	.....
					A. J. Bond & Co., 1763 Portage Ave., St. James, 3 "			
					Aikenhead-Clark Hardware Co., 3 "			
					Boyd Building, Winnipeg. 3 "			

SESSIONAL PAPER No. 14

DISTRICT OF SASKATCHEWAN—L. H. HALL, TEMPORARY INSPECTOR.

July 10	Tarapentide.	66384	C. T. Laird, Regina.	3 pls.	60	Unknown.	.....
" 18	"	66385	Regina Trading Co., Regina.	3 "	60	Continental Oil Co.	.....
" 18	"	66386	Armstrong Synthe & Dowsell, Regina.	3 "	60	Winnipeg Oil Co., Regina.	.....
" 26	"	66387	John Goshel, Melville.	3 "	60	Winnipeg Oil Co., Melville.	.....
" 26	"	66400	E. Smith, Melville.	3 "	60	" "	.....
" 26	"	66402	Wm. Anderson, Melville.	3 "	40	Sherwin Williams Co., Winnipeg.	.....
" 21	"	66410	Chas. Beck, Yorkton.	3 "	50	Winnipeg Oil Co., Yorkton.	.....
" 21	"	66412	D. A. Sand, Yorkton.	3 "	75	G. F. Stephens & Co., Winnipeg.	.....
" 21	"	66416	Isbister & Preddy, Saskatoon.	3 "	60	" "	.....
" 26	"	66418	Fawcett Hardware Co., Saskatoon.	3 "	40	Prairie City Oil Co., Saskatoon.	.....

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

Aug. 10	Tarapentide.	62216	Northern Hardware Co., Edmonton.	3 pls.	45	Brit. Amer. Paint Co., Edmonton.	.....
" 18	"	62247	Curry Hardware Co., Edmonton.	3 "	60	G. F. Stephens Co., Winnipeg.	.....
" 18	"	62248	A. Werner, Edmonton.	3 "	60	Brit. Amer. Paint Co., Edmonton.	.....
" 18	"	62249	Summersville Hardware Co., Edmonton.	3 "	60	Marshall Wells Alberta Co., Edmonton.	.....
" 12	"	62250	Geo. D. Wallace, Ltd., Wetaskiwin.	3 "	50	G. F. Stephens Winnipeg.	.....
" 12	"	62251	Morrison & Johnston, Ltd., Lacombe.	3 "	45	Marshall Wells Winnipeg.	.....
" 12	"	62252	A. M. Campbell, Lacombe.	3 "	40	G. F. Stephens Co., Winnipeg.	.....
" 26	"	62253	J. H. Ashdown Hardware Co., Calgary.	3 "	20	Prairie City Oil Co., Winnipeg.	.....
" 26	"	62254	Marshall Hardware, Ltd., Calgary.	3 "	60	Calgary Paint & Glass Co.	.....
" 26	"	62255	Geo. Hall Hardware Co., Calgary.	3 "	25	Brit. Amer. Paint Co., Calgary.	.....

BULLETIN No. 331—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Manufacturer.	Furnisher.	
				Cents.			

DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

1915.							
July 20	Turpentine.	61847	F. Wilmes, Trail.....	3 pds.	Sherwin - Williams Co., Montreal.	Jones & Dillingham, Spokane.	
" 20	"	61854	Hunter Bros., Rossland.....	3 "	"	McLennan & McFeely, Vancouver.	
Aug. 6	"	61866	W. R. Megaw, Vernon.....	3 "	"	Wood, Vallance & Leggath, Vancouver.	
" 6	"	61867	Vernon Hardware Co., Vernon.....	3 "	"	McLennan & McFeely, Vancouver.	
" 10	"	61872	Wilcox Hall Co., Kamloops.....	3 "	"	"	
" 10	"	61873	Marlatt & McKenzie, Kamloops.....	3 "	Imperial Oil Co., Vancouver.	"	
" 10	"	61876	N. S. Dalgleish, Kamloops.....	3 "	ver.	"	
" 16	"	61882	Merritt Mercantile Co., Merritt.....	3 "	"	Johnson Paint & Varnish Co., Vancouver.	
" 16	"	61883	Armstrong's Departmental Stores, Merritt.	3 "	"	Cunningham Hardware New Westminster.	
" 16	"	61886	A. Jackson, Merritt.....	3 "	Imperial Oil Co., Vancouver.	"	

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BULLETIN No. 331—TABLE I

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. gr. at 15.5° C.	Residue 10cc. 40cc. Acid.	Ref. Index 20° C. Residue.	Ref. Index 20° C. Turbidity.	Boiling Point of Fractions from 100cc.				Refractive Index and		
						1st, 25cc.	2nd, 25cc.	3rd, 25cc.	Next, 15cc.	I	II	III
Three Rivers ...	2789	0.8536	2.72	1.4592	1.4650	147-158	-163	-174	-235	1.4635	1.4658	1.4660
	2792	0.8829	0.64	1.4960	1.4728	85-157	-159	-169	-225	1.4634	1.4688	1.4712
	2794	0.8770	2.48	1.4680	1.4702	100-159	-167	-184	-225	1.4640	1.4666	1.4685
	2797	0.8734	0.60	1.4922	1.4690	95-156	-158	-167	-218	1.4650	1.4682	1.4702
	69124	0.8658	0.48	1.4045	1.4702							
	69125	0.8633	0.40	1.5084	1.4704							
	69126	0.8651	0.48	1.5072	1.4704							
	69127	0.8647	0.40	1.5080	1.4702							
	69128	0.8670	0.40	1.5068	1.4702							
	69129	0.8662	0.56	1.5026	1.4704							
	69130	0.8798	0.64	1.4950	1.4720							
	69131	0.8742	0.64	1.5030	1.4726							
	69132	0.8650	0.68	1.5012	1.4704							
	69133	0.8679	0.84	1.4882	1.4694	140-156	-158	-159	-169	1.4650	1.4686	1.4698
Eastern Townships.	69184	0.8676	0.80	1.4995	1.4710							
	63050	0.8799	3.32	1.4665	1.4725	130-169	-183	-210	-247	1.4670	1.4688	1.4700
	63051	0.8559	3.40	1.4635	1.4668	80-164	-169	-190	-238	1.4586	1.4668	1.4686
	63052	0.8483	3.36	1.4580	1.4632	147-159	-161	-163	-179	1.4600	1.4632	1.4648
	63053	0.8652	0.88	1.4922	1.4700	150-155	-155	-155	-159	1.4678	1.4692	1.4700
	63054	0.8666	0.64	1.5020	1.4702							
	63055	0.8499	3.36	1.4564	1.4624	130-156	-156	-166	-197	1.4576	1.4620	1.4636
	63056	0.8488	3.36	1.4590	1.4630	140-159	-161	-164	-195	1.4596	1.4630	1.4644
	63057	0.8665	0.92	1.4932	1.4700							
	63058	0.8794	0.56	1.5012	1.4722							
	63059	0.8662	0.72	1.5022	1.4712							
	67456	0.8664	0.72	1.5008	1.4705							
	67457	0.8661	0.76	1.5000	1.4704							
	67458	0.8699	0.92	1.4756	1.4690	93-157	-159	-162	-179	1.4632	1.4665	1.4686
Montreal.	67459	0.8548	3.52	1.4570	1.4638	120-163	-167	-179	-205	1.4612	1.4632	1.4645
	67460	0.8648	0.88	1.4952	1.4694							
	67461	0.8695	3.40	1.4676	1.4704	110-167	-178	-220	-235	1.4668	1.4680	1.4692
	67462	0.8675	0.56	1.5080	1.4712							
	67463	0.8680	0.44	1.5086	1.4710							
	67464	0.8614	3.36	1.4654	1.4700	140-164	-175	-220	-235	1.4680	1.4690	1.4698
	67465	0.8618	3.48	1.4665	1.4698	145-168	-178	-215	-247	1.4624	1.4684	1.4686
	57991	0.8890	0.64	1.4975	1.4740	100-158	-160	-170	-225	1.4680	1.4690	1.4706
	57992	0.8902	0.56	1.4984	1.4750	100-157	-158	-168	-215	1.4682	1.4692	1.4710
	57993	0.8863	0.48	1.4965	1.4740	100-156	-156	-168	-230	1.4680	1.4696	1.4708
	57994	0.8681	0.88	1.4964	1.4706							
	57995	0.8643	0.72	1.4952	1.4692							
	57996	0.8652	0.76	1.4955	1.4706							
	57997	0.8671	1.00	1.5042	1.4704							
Valleyfield.	57998	0.8744	0.92	1.4872	1.4710	140-157	-157	-164	-210	1.4680	1.4685	1.4692
	57999	0.8648	1.04	1.5010	1.4702							
	58000	0.8580	3.68	1.4670	1.4680	120-158	-164	-178	-215	1.4652	1.4664	1.4684
	51693	0.8451	2.80	1.4521	1.4610	150-157	-158	-159	-174	1.4612	1.4620	1.4630
	51694	0.8659	0.58	1.5050	1.4705							
	51695	0.8668	0.88	1.4968	1.4700							
	51696	0.8662	0.56	1.5002	1.4700							
	51697	0.8692	1.00	1.4715	1.4692	150-167	-177	-207	-238	1.4680	1.4690	1.4690
	51698	0.8667	0.64	1.5065	1.4700							
	51699	0.8665	0.88	1.4995	1.4704							
	63689	0.8441	2.92	1.4494	1.4610	130-153	-154	-158	-169	1.4595	1.4615	1.4622
	63690	0.8664	1.00	1.4998	1.4705							
	63691	0.8486	2.72	1.4580	1.5630	140-157	-158	-159	-169	1.4610	1.4640	1.4648
	63692	0.8662	0.68	1.4970	1.4700							
Kingston.	63693	0.8227	4.08	1.4412	1.4510	100-140	-153	-157	-163	1.4284	1.4502	1.4616
	70251	0.8693	0.60	1.5030	1.4708							
	70252	0.8675	0.56	1.5060	1.4710							

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BULLETIN No. 331—TABLE I

RESULTS OF

Name of Inspectoral District.	No. of Sample.	S. Gr. at 20° C.	Residue 10cc. 40cc. Acid.	Ref. Index 20° C. Residue.	Ref. Index 20° C. Turpentine.	Boiling Point of Fractions from 100cc.				Refractive Index and		
						1st. 25cc.	2nd 25cc.	3rd 25cc.	Next, 15cc.	I	II	III
Kingston—Con.	70253	0.8648	0.72	1.5024	1.4710							
	70254	0.8726	0.48	1.5058	1.4714							
	70255	0.8562	4.16	1.4722	1.4705	100—164	—174	—184	—243	1.4670	1.4675	1.4685
	70256	0.8682	1.08	1.4860	1.4715	130—154	—159	—167	—210	1.4700	1.4700	1.4710
	70257	0.8673	0.56	1.5062	1.4718							
	70258	0.8655	0.64	1.5039	1.4700							
	70259	0.8657	0.68	1.5060	1.4708							
	70260	0.8649	0.44	1.5065	1.4716							
	70074	0.8646	0.64	1.5018	1.4702							
	70075	0.8665	0.72	1.5030	1.4720							
	70076	0.8647	0.68	1.5042	1.4714							
	70077	0.8539	2.90	1.4630	1.4660	140—157	—159	—161	—168	1.4620	1.4665	1.4682
	70078	0.8687	0.72	1.4895	1.4698	130—156	—156	—159	—174	1.4648	1.4684	1.4700
	70079	0.8453	3.20	1.4500	1.4624	130—159	—164	—179	—230	1.4612	1.4642	1.4644
Toronto.....	70080	0.8409	3.76	1.4480	1.4602	140—157	—163	—167	—189	1.4550	1.4610	1.4628
	70081	0.8653	0.68	1.4956	1.4702							
	70082	0.8477	2.20	1.4524	1.4635	120—156	—158	—162	—172	1.4560	1.4652	1.4672
	70083	0.8497	1.92	1.4552	1.4644	140—157	—158	—161	—171	1.4600	1.4658	1.4678
	70041	0.8682	0.44	1.4985	1.4720							
	70042	0.8690	0.56	1.4995	1.4705							
	70043	0.8422	4.00	1.4552	1.4606	130—158	—161	—169	—155	1.4550	1.4600	1.4622
	70044	0.8617	6.96	1.4825	1.4685	150—156	—156	—156	—161	1.4680	1.4675	1.4690
	70045	0.8649	9.72	1.4970	1.4704							
	70046	0.8721	0.48	1.4975	1.4720							
Hamilton.....	70047	0.8660	0.56	1.4984	1.4710							
	70048	0.8659	0.44	1.4998	1.4712							
	70049	0.8734	0.40	1.4958	1.4720							
	70050	0.8700	0.60	1.4970	1.4712							
	54644	0.8639	0.68	1.5030	1.4694							
	54646	0.8649	0.64	1.5030	1.4700							
	54648	0.8640	0.68	1.5020	1.4698							
	54650	0.8669	0.64	1.5015	1.4706							
	54652	0.8648	0.64	1.5024	1.4694							
	54654	0.8652	0.60	1.5030	1.4692							
	54657	0.8666	0.56	1.5048	1.4705							
	54659	0.8666	0.68	1.5018	1.4712							
	54662	0.8661	0.64	1.5048	1.4694							
	54664	0.8690	0.64	1.5018	1.4710							
	54666	0.8662	0.56	1.5040	1.4710							
	54670	0.8665	0.60	1.5042	1.4705							
Windsor..		Sp.gr. at 15° C.					Initial Boiling Point.					
	61325	0.8592	2.00	1.4780	1.4670		150°					
	61326	0.8685	0.72	1.5155	1.4708		150°					
	61327	0.8687	0.72	1.5100	1.4703		149°					
	61329	0.8765	0.80	1.5104	1.4715		151°					
	61331	0.8619	1.04	1.4875	1.4672		149°					
	61333	0.8703	0.64	1.5090	1.4708		153°					
	61334	0.8595	1.68	1.4820	1.4672		149°					
	61338	0.8699	0.56	1.5050	1.4709		148°					
	61339	0.8684	0.64	1.5080	1.4702		153°					
Saskatchewan..	61340	0.8647	1.60	1.4820	1.4678		150°					
	66394	0.8743	0.48	1.5030	1.4705		150°					
	66395	0.8612	1.36	1.4800	1.4673		150°					
	66396	0.8692	0.80	1.5038	1.4703		152°					
	66398	0.8694	0.48	1.5060	1.4706		149°					
	66400	0.8698	0.72	1.5068	1.4708		150°					

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BULLETIN No. 331—TABLE I

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. at 15° C.	Residue 10 cc. cc. acid.	Ref. Index 20° C. Residue.	Ref. Index 20° C. Turpentine.	Boiling Point of Fractions from 100cc.				Refractive Index and		
						1st, 25cc.	2nd, 25cc.	3rd, 25cc.	Next, 15cc.	I	II	III
Saskatchewan— Con.	66402	0.8685	0.52	1.5020	1.4700	.....	Initial Boiling Point. 152°	.....	.....	.....	.....	.....
	66410	0.8681	0.48	1.5022	1.4701	.....	149°	.....	.....	.....	.....	.....
	66412	0.8684	0.64	1.5094	1.4639	.....	152°	.....	.....	.....	.....	.....
	66416	0.8696	0.48	1.5020	1.4708	.....	152°	.....	.....	.....	.....	.....
	66418	0.8691	0.56	1.5100	1.4710	.....	149°	.....	.....	.....	.....	.....
Alberta.....		Sp.gr. at 20° C.										
	52246	0.8599	1.60	1.4518	1.4671	152-160	163	-171	-217	1.4648	1.4660	1.4669
	52247	0.8632	0.32	1.5005	1.4711	156-158	159	-160	-165	1.4689	1.4692	1.4702
	52248	0.8548	1.76	1.4540	1.4665	152-157	-161	-167	-189	1.4648	1.4660	1.4666
	52249	0.8632	0.36	1.4950	1.4710	154-157	-158	-160	-164	1.4689	1.4693	1.4703
	52250	0.8652	0.36	1.4891	1.4708	155-158	-160	-163	-175	1.4682	1.4690	1.4700
	52251	0.8658	0.36	1.4970	1.4700	152-156	-156	-158	-160	1.4683	1.4689	1.4695
	52252	0.8733	0.56	1.4701	1.4711	152-157	-160	-166	-184	1.4666	1.4681	1.4690
	52253	0.8624	0.48	1.4792	1.4700	154-157	-158	-160	-163	1.4683	1.4689	1.4699
	52254	0.8669	0.32	1.5040	1.4711	154-157	-158	-159	-163	1.4690	1.4694	1.4701
	52255	0.8545	1.60	1.4501	1.4663	155-162	-164	-170	-189	1.4649	1.4661	1.4663
	61847	0.8684	0.48	1.5048	1.4708	153-157	-158	-160	-167	1.4684	1.4691	1.4700
Rocky Moun- tains.	61854	0.8648	0.72	1.5092	1.4711	154-158	-159	-160	-161	1.4693	1.4700	1.4709
	61866	0.8654	0.40	1.5023	1.4719	154-157	-158	-159	-164	1.4699	1.4706	1.4710
	61867	0.8681	0.48	1.5048	1.4710	153-157	-158	-160	-164	1.4686	1.4696	1.4698
	61872	0.8004	6.83	1.4246	1.4420	100-133	-152	-169	-187	1.4208	1.4306	1.4451
	61875	0.8590	2.32	1.4498	1.4661	154-160	-164	-169	-194	1.4639	1.4656	1.4661
Vancouver..	61876	0.8695	0.36	1.5080	1.4709	153-158	-159	-160	-165	1.4681	1.4691	1.4700
	61882	0.7977	7.84	1.4315	1.4411	145-157	-167	-179	-196	1.4371	1.4402	1.4447
	61883	0.8682	0.52	1.4649	1.4700	150-156	-158	-162	-169	1.4629	1.4680	1.4689
	61886	0.8780	0.32	1.4987	1.4729	153-160	-163	-167	-187	1.4680	1.4697	1.4706
	55348	0.8676	0.24	1.5030	1.4710	152-156	-157	-159	-164	1.4687	1.4698	1.4701
	55349	0.8542	1.68	1.4543	1.4667	153-159	-161	-166	-180	1.4651	1.4661	1.4670
	55350	0.8643	0.84	1.4568	1.4690	150-156	-160	-164	-181	1.4630	1.4676	1.4689
	55351	0.8567	0.76	1.4559	1.4660	147-153	-157	-159	-164	1.4579	1.4659	1.4679
	55352	0.8667	0.30	1.4903	1.4703	153-159	-160	-162	-165	1.4669	1.4690	1.4699
	55353	0.8284	5.48	1.4464	1.4543	147-163	-172	-191	-214	1.4453	1.4521	1.4562
Victoria....	55354	0.8651	0.24	1.5039	1.4700	154-157	-157	-157	-161	1.4684	1.4688	1.4691
	55355	0.8668	0.54	1.4716	1.4695	148-156	-156	-160	-174	1.4620	1.4680	1.4699
	55356	0.8340	7.00	1.4491	1.4581	147-169	-184	-205	-220	1.4442	1.4519	1.4582
	55357	0.8713	0.50	1.4722	1.4702	150-159	-162	-168	-182	1.4631	1.4680	1.4700
	66790	0.866	0.36	1.5002	1.4710	152-157	-157	-159	-164	1.4687	1.4697	1.4702
	66792	0.8700	0.36	1.5062	1.4711	154-157	-158	-159	-164	1.4689	1.4698	1.4701
	66793	0.8573	1.84	1.4649	1.4681	154-161	-164	-167	-181	1.4658	1.4668	1.4679
	66795	0.8503	2.30	1.4480	1.4648	155-159	-162	-169	-184	1.4639	1.4649	1.4653
	66797	0.8651	0.52	1.5040	1.4710	154-158	-160	-161	-167	1.4686	1.4690	1.4700
	66799	0.8775	0.36	1.5008	1.4719	149-156	-157	-162	-184	1.4662	1.4688	1.4699
	66601	0.8639	0.36	1.5021	1.4704	154-157	-157	-158	-160	1.4690	1.4697	1.4703
	66603	0.8461	3.24	1.4523	1.4640	153-160	-160	-172	-187	1.4612	1.4633	1.4640

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PART II—TURPENTINE.

ANALYSIS.

20° C. of Fractions Residues.			Volumes Obtained from 100cc.										Residue on Evaporation.	Iodine Number.	Flash Point.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
IV	Residual 10cc.	Residual 25cc.	Under 150° C.	150° to 154°	155° to 159°	160° to 164°	165° to 169°	170° to 174°	175° to 179°	180° to 184°	185° to 189°	190° and over.					
				92									1.53	348.6	...	66402	
				86									2.03	329.4	...	66410	
				86									1.57	348.2	...	66412	
				47									1.98	346.7	...	66416	
				93									1.68	338.6	...	66418	
1.4670	1.4969		1.18	39	14	7	4	3	1	3			312.2	35.5	52246	Adulterated.	See note on
1.4719	1.4919			64	24	2							378.2	32.5	52247	page 5.	
1.4662	1.4786		1.38	28	13	5	3	1	1				314.7	35.5	52248	Adulterated.	See note on
1.4717	1.4880			68	22								377.0	33.0	52249	page 5.	
1.4720	1.4989			47	33	6	3	1					373.1	32.5	52250		
1.4709	1.4893		2.79	9									373.1	31.5	52251		
1.4721	1.5041		2.37	28	15	4	2	2					342.4	33.0	52252		
1.4708	1.4788			71	19								371.8	31.5	52253		
1.4713	1.4879			77	13								375.7	34.0	52254		
1.4658	1.4797			16	43	14	7	4	3	3			315.9		52255	Adulterated.	See note on
1.4712	1.4960			169	17	3							387.1	33.5	61847	page 5.	
1.4718	1.4839			65	25								388.6	34.5	61854		
1.4722	1.4903			83	7								387.1	34.5	61866		
1.4715	1.4894			1.68	21								376.0	33.5	61867		
1.4650	1.4839		47	8	7	5	5	4	3	3			60.3	5.0	61872	Adulterated.	See note on
																page 5.	
1.4653	1.4810			17	40	18	7	4	2	1	1		291.8	35.5	61874		
1.4714	1.4945			1	49	35	5						380.7	32.5	61876		
1.4660	1.4625		3.10	18	12	11	11	9	6	5	5		9.5	32.0	61882		
1.4721	1.5001			10	48	25	7						345.7	29.0	61883		
1.4732	1.5090			1	4	59	16	5	3	1	1		364.9	33.0	61886		
1.4719	1.4910			2.76	12								387.1	33.0	61848		
1.4658	1.4721			1	24	15	11	6	2	1			320.4	34.5	61849		
1.4702	1.4981			8	37	29	9	5	2	2			336.2	30.5	61850		
1.4697	1.4857		8.21	14	7								345.7	29.5	61851		
1.4712	1.4838			1	19	65							374.4	32.0	61852		
1.4692	1.4720		2.4	4	9	15	14	12	9	5	4	17	133.2	34.0	61855	Adulterated.	See note on
1.4706	1.4827			44	6								383.9	34.0	61854	page 5.	
1.4721	1.5024			5	10	50	14	4	3				345.7	29.0	61856		
1.4639	1.4798		4	5	6	6	6	7	7	8	8	53	53.9	32.0	61857	Adulterated.	See note on
1.4724	1.5031			6	14	19	11	7	5	2			344.3	30.5	61857	page 5.	
1.4718	1.4911			3	72	12							364.9	33.0	61858		
1.4712	1.4897			78	12								374.4	34.0	61859		
1.4672	1.4778			6	49	25	6	3	1				323.2	35.7	61858		
1.4642	1.4695			25	37	12	16	3	3				287.1	35.0	61859	Adulterated.	See note on
1.4717	1.4906			39	10								376.0	34.0	61857	page 5.	
1.4736	1.5096		2.10	58	10	4	3	2	1				350.5	31.0	61859		
1.4712	1.4829			85	5								388.6	33.5	61861		
1.4628	1.4662			1	10	50	9	9	8	4	2		289.7	35.0	61860	Adulterated.	See note on
																page 5.	

APPENDIX W.

BULLETIN No. 332—RAW LINSEED OIL.

OTTAWA, January 14, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit a report dealing with two hundred and ten (210) samples of raw linseed oil, obtained by our inspectors throughout Canada in July, August and September of last year.

These samples were purchased from dealers in paint materials, the object being to ascertain to what extent, if at all, surrogates are offered on the market. The fourth schedule to the Adulteration Act defines *White Lead in Oil* as "Dry white lead ground in pure linseed oil, etc," thus involving the identification of linseed oil as a paint material.

In September, 1913 (see Bulletin No. 266), I reported upon fifty-three samples of linseed oil, and from this report I quote the following:—

"Owing to the fact that commercial linseed is never pure, it follows that the oil expressed from such seed varies in character, within limits, depending upon the nature and amount of foreign seeds in admixture. The following extremes are quoted from Allen's Commercial Organic Analysis, 4th edition, vol. II, p. 70:—

Specific gravity at 15.5°C	0.9315 to 0.9410
Solidifying point.	16° 27°C.
Melting point of fatty acids.	17° 24°C.
Saponification value.	190 201
Reichert-Meißl value.	0
Hehner value.	95.0 95.5
Iodine value.	175 201

Owing to the great variety and diverse character of available adulterants for linseed oil, and to the inevitable variability of the article, even when commercially genuine, the detection (and particularly the specific identification) of adulteration in linseed oil is far from being a simple matter. Large buyers of linseed oil would do well to furnish specifications of the article they demand, or purchase by sample. The American Society for Testing Materials fixed the following specifications for the year 1910 (*Oil and Colour Journal*, 1909, 36):—

RAW LINSEED OIL.

	Maximum.	Minimum.
Specific gravity at 15°C.	0.936	0.932
" 25°C.	0.931	0.927
Acid number.	6.000	
Saponification value	192	189
Unsaponifiable residue.	1.5	
Refractive index at 25°C.	1.4805	1.4790
Hanus iodine value.	190	178

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As judged by the above quoted standards, which, however, have no direct legal approval for Canada, the samples now reported appear as below:—

	Samples.
Genuine... ..	196
Doubtful... ..	9
Adulterated... ..	11
Total... ..	<hr/> 216 <hr/>

Allen (Com. Org. Analysis, Vol. II, 339) quotes the following list of adulterants for linseed oil: Mineral hydrocarbons, cottonseed oil, nigerseed oil, tung oil, fish oil, hempseed oil; rosin and rosin oil, rape oil, ravisson oil, safflower oil, and candle nut oil. Of course the particular adulterant selected in a given case will depend upon the cheapness of the adulterant. Mineral hydrocarbons and rosin oil appear most usually in adulterated linseed oil as offered on Canadian markets.

A material which may become available as a substitute for, or possibly as an adulterant of, linseed oil, is a fraction of the oils obtained in the destructive distillation of wood. (Pritchard, *Journal Industrial and Engineering Chemistry*, 1912, 338.) The author says: "We have had these oils tested out for the commercial purposes that rosin oils are used for, and they seem to serve admirably. They can be produced at much less cost."

Teeple (*Journal Industrial and Engineering Chemistry*, 1913, p. 682), writing of the utilization of wood waste, says: "The light oils from resinous woods, which are between tar oil and turpentine in their character, find a very limited market."

I beg to recommend publication of this report as Bulletin No. 332.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Sept. 28	Raw Linseed Oil.	64246	Wm. Stairs, Son, & Morrow, Halifax.	1½ pts.	15	Can. Linseed Oil Co., Montreal.	Mfrs.
" 28	"	64247	Wm. Robertson & Son, Halifax.	1½ "	15	Dom. Linseed Oil Co., Montreal.	"
" 28	"	64248	A. M. Bell & Co., Halifax.	1½ "	15	Can. Linseed Oil Mill Co., Montreal.	"
" 28	"	64249	Jas. Simmonds, Ltd., Halifax.	1½ "	15	" "	"
" 28	"	64250	Geo. E. Smith & Co., Halifax.	1½ "	15	Dom. Linseed Oil Co., Montreal.	"

DISTRICT OF NOVA SCOTIA—

Aug. 13	Raw Linseed Oil.	69831	J. L. Fraser, New Glasgow.	3 pts.	45	Imperial Oil Co., Halifax.	Mfrs.
" 13	"	69832	Thompson & Sutherland, New Glasgow.	3 "	37	Sherwin-Williams Co., Montreal.	"
" 13	"	69833	Bent & Cohoon, New Glasgow.	3 "	38	Can. Paint Co., Montreal.	"

DISTRICT OF CAPE BRETON—

July 27	Raw Linseed Oil.	63813	C. P. Moore, Sydney.....	3 pts.	45	Dom. Linseed Oil Co., Montreal.	.....
" 27	"	63815	Thompson, Sutherland Co., Sydney.	3 "	45	Sherwin-Williams Co., Montreal.	.....

DISTRICT OF PRINCE EDWARD ISLAND—

July 15	Raw Linseed Oil.	60353	Prowse & Sons, Murray Harbour.	3 pts.	35	.....	Thompson & Sutherland, New Glasgow.
" 17	"	60354	S. H. Crabbe, Charlottetown.	3 "	30	Sherwin-Williams, Montreal.	.....
" 17	"	60355	Fennell & Chandler, Charlottetown.	3 "	35	Dom. Linseed Oil Co., Montreal.	.....
" 19	"	60356	Rogers Hardware Co., Charlottetown.	3 "	35	The Can. Linseed Oil Mills, Ltd., Montreal.	.....
" 19	"	60357	P. J. Benigan, Duneden Lot 31.	3 "	35	Rogers Hardware Co., Charlottetown
" 19	"	60358	A. J. McNevin, Bonshaw, Lot 0.	3 "	35	"

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RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.		

R. J. WAUGH, INSPECTOR.

.....	1.4807	0.933	191.6	Linseed	....	64246	Genuine.
.....	1.4810	0.934	192.5	"	....	64247	"
.....	1.4808	0.933	190.8	"	....	64248	"
.....	1.4808	0.933	189.0	"	....	64249	"
.....	1.4809	0.933	190.8	"	....	64250	"

WALTER A. PETIPAS, TEMPORARY INSPECTOR.

.....	1.4808	0.933	190.8	Linseed	....	69831	Genuine.
.....	1.4810	0.933	193.2	"	....	69832	"
.....	1.4809	0.933	194.8	"	....	69833	"

E. F. McKEEN, INSPECTOR.

.....	1.4808	0.933	193.0	Linseed	....	63812	Genuine.
.....	1.4810	0.932	193.9	"	....	63813	"

WM. A. WEEKS, INSPECTOR.

.....	1.4808	0.932	192.0	Linseed	....	60331	Genuine.
.....	1.4809	0.929	187.5	"	1.17	60334	Specific gravity too low. Possibly
.....	1.4804	0.933	192.3	"	....	60335	Genuine.
.....	1.4811	0.933	193.8	"	....	60336	"
.....	1.4819	0.930	192.0	Foreign oil.	1.90	60337	Probably. Not reportable as such.
.....	1.4812	0.934	195.3	Linseed	60338	Genuine.

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BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND—

1915.							
July 23	Raw Linseed Oil.	60359	Russell Car, Morell	3 pts.	35	Can. Paint Co., Montreal.	.....
" 23	"	60360	H. H. Cox, Morell	3 "	35	Can. Linseed Oil Mills, Ltd., Montreal.	.....
" 23	"	60361	Lestock, Anderson, St. Peters.	3 "	35	A. M. Bell Co., Halifax.	.....
" 23	"	60362	Matthew & McLean, Ltd., Souris.	3 "	35	Sherwin-Williams, Montreal.	.....

DISTRICT OF NEW BRUNSWICK—

Aug. 2	Raw Linseed Oil.	66141	Robertson, Foster & Smith, St. John.	3 pts.	40	Dom. Linseed Oil Co., Montreal.	.....
" 3	"	66142	F. A. Young, St. John.....	3 "	40	The Can. Oil Co., Ltd., Montreal.	.....
" 3	"	66143	T. McAvity & Sons, St. John.	3 "	40	Dom. Linseed Oil Co., Montreal.	.....
" 4	"	66144	W. H. Thorne & Co., Ltd., St. John.	3 "	45	Can. Linseed Oil Mills, Montreal.	.....
" 4	"	66145	H. L. & J. F. McGowan, St. John.	3 "	50	"	.....
" 11	"	65146	The De Wolfe Hardware Co., St. Stephen.	3 "	45	.....	Robertson, Foster & Smith, St. John.
" 17	"	66147	R. Chestnut & Son, Fredericton.	3 "	45	Dom. Linseed Oil Co., Montreal.	.....
" 18	"	66148	W. F. Dibley & Son, Woodstock.	3 "	45	.....	Can. Paint Co., Ltd., Montreal
" 24	"	66149	Sussex Mercantile Co., Ltd., Sussex.	3 "	45	Can. Linseed Oil Co., Ltd., Montreal.	.....
" 26	"	66150	Sumner & Co., Moncton. . .	3 "	30	.....	De B. Carritte, St. John.

DISTRICT OF QUEBEC PROVINCE—

July 6	Huile de lin.	3602	A. Audet, Ste. Claire ...	3 pts.	35	.....	The Beaver Co., Ltd., Montreal.
" 7	"	3604	Dorchester Lumber, St. Malachi.	3 "	21	Sherwin-Williams	.....
" 12	"	3611	J. L. Audet, St. Edward.	3 "	25	William Doyle....	.....
" 16	"	3625	P. K. Prevost, Ste. Rose...	3 "	15	Herwin Young, Quebec.	.....
" 17	"	3626	Ganipie, Ste. Prosperie. . .	3 "	25	Fratingham, Montreal.	.....

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.		

Concluded.

.....	1.4808	0.932	196.1	Linseed	.....	60359	Genuine.
.....	1.4811	0.933	197.3	"	.....	60360	"
.....	1.4811	0.934	193.5	"	.....	60361	"
.....	1.4811	0.934	196.8	"	.....	60362	"

JOHN C. FERGUSON, INSPECTOR.

.....	1.4811	0.932	191.9	Linseed	.....	66141	Genuine.
.....	1.4808	0.933	190.7	"	.....	66142	"
.....	1.4811	0.933	193.5	"	.....	66143	"
.....	1.4809	0.933	192.4	"	.....	66144	"
.....	1.4807	0.933	192.2	"	.....	66145	"
.....	1.4810	0.933	192.0	"	.....	66146	"
.....	1.4805	0.933	193.2	"	.....	66147	"
.....	1.4806	0.932	192.0	"	.....	66148	"
.....	1.4813	0.933	195.7	"	.....	66149	"
.....	1.4804	0.933	193.2	"	.....	66150	"

J. E. AUDET, D. BROCHU, N. CADIEUX, T. GENDREAU, TEMP. INSPECTORS

.....	0.944	180.7	Doubt- ful	6.14	3602	Adulterated. Saponification low.
.....	0.934	180.8	Linseed	.....	3604	Genuine.
.....	0.930	183.2	"	1.28	3611	Doubtful. Saponification low.
.....	0.939	176.9	Doubt- ful	5.89	3622	Adulterated. Saponification low.
.....	0.935	173.7	Indina- ter. oil or crude oil	8.49	3627	"

7 GEORGE V, A. 1917

BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample,	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF QUEBEC PROVINCE—							
1915.							
July 20	Huile de lin. crue.	3587	Michel Lacroix, St. Raphael.	1 pt.	20	Sherwin-Williams	
" 20	Huile de lin.	3590	Archille Lamarie, St. Valier.	1 "	23	Can. Paint, Montreal.	
" 20	"	3592	L. A. Roy, St. Valier.	1 "	24	"	
" 22	Huile lin bouillie,	4402	Geo. Roy, St. Michel.	3 bots.	23	Martin Senour Co., Montreal.	
" 22	"	4404	J. A. Lemieux, St. Michel.	3 "	23	Sherwin-Williams Co., Montreal.	
" 22	Huile de lin.	4411	J. B. Lacroix, St. Charles.	1 pt.	25	Can. Paint Co.	
" 22	"	4412	J. E. Rouillard, St. Gervais.	1 "	30	Sherwin-Williams Co.	
" 22	Huile de lin.	4417	Arthur Arsenault, St. Gervais.	1 Pte.	23	Can. Paint Co., Montreal.	
" 23	" " "	4421	Charles Gagnon, St. Damien	1 "	32	Dorchester Lambert Co., Montreal.	
" 23	" " "	4422	Napoleon Aubin, St. Damien	1 "	32	" "	
" 12	" " "	297	Alexandre Villeneuve, St. Jerome.	3 chop	60	Mount Royal Colour & Varnishing Co., Ltd. Montreal.	
" 12	" " "	298	Charlesmagne Taillon, St. Jerome.	3 "	51	Sherwin Williams	
" 19	" " "	310	Adelard Sigouin Ste. Agathe des Mont.	3 "	50	Mount Royal.	
" 19	" " "	312	F. Lebreque, Ste. Agathe des Mont.	3 "	60	R. C. Jameson.	
" 15	" " "	2768	Anselme Provost, St. Francois Montmagny.	1 "	15	Can. Paint Co., Montreal.	
" 16	" " "	2770	George Roy, Berthier	1 "	15	Martin Senour, Montreal.	
" 18	" " "	2774	Alphonse Letourneau, St. Pierre, Montmagny.	1 "	15	Samson & Filion, Quebec.	
" 20	" " "	2778	Joseph Dube, Cap. St. Ignace	1 "	15	Stark Seybold Ltd. Montreal.	
" 21	" " "	2784	Joseph Fournier, St. Thomas Montmagny.	1 "	15	J. E. Lemieux, Quebec.	
" 26	" " "	2790	Alphonse Labarge, Montmagny.	1 "	15	Can. Paint Co., Montreal.	
" 27	" " "	2791	Ludger Godbont, St. Romain, Montmagny.	1 "	15	Livingstone Linseed Oil, Montreal.	
" 28	" " "	2795	J. P. Letourneau, St Paul, Montmagny.	1 "	15	Can. Paint Co., Montreal.	
" 29	" " "	2798	G. Blais, St. Ephemie, Montmagny.	1 "	15	Sherwin Williams, Montreal.	
Sept. 14	Huile de peinture	321	Ernest Lahaie, St. Eustache, Comte des deux Mont.	3 "	30	Prudhomme, Montreal.	

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20°C.	Specific Gravity 15.5°C.	Saponification Number.	Spot Test.	Unsataponifiable Matter.		

Concluded.

		0.935	191.4	Linseed		3587	Genuine.
		0.937	187.4	"	1.64	3590	"
		0.938	188.1	"	1.64	3592	"
		0.938	182.0	"	2.42	4402	Doubtful. Unsaponified residue is high.
		0.938	189.9	"		4404	Genuine.
		0.937	184.8	"	1.48	4411	"
		0.938	183.2	"	1.28	4412	"
		0.950	187.8	"	1.10	4417	Abnormal. Specific gravity, doubtful.
		0.936	187.6	"	0.90	4421	Genuine
		0.939	186.8	"	1.24	4422	"
		0.934	183.2	Doubtful	2.94	297	Doubtful, Unsaponified residue is high.
		0.937	183.8	Linseed	68	298	Genuine
		0.935	190.3	"		310	"
		0.937	191.4	"		312	"
		0.938	185.6	"		2768	"
		0.940	186.0	"	3.80	2770	"
		0.938	189.8	"		2774	"
		0.935	177.5	Indicative mineral oil	4.82	2778	Adulterated, saponification too low
		0.936	180.2	"	6.28	2784	"
		0.937	184.4	Linseed	1.20	2790	Genuine
		0.937	180.7	Doubtful	5.38	2791	Adulterated. Saponification too low
		0.936	185.7	Linseed	1.50	2795	Genuine
		0.936	186.2	"		2798	"
		0.937	184.5	"		321	"

7 GEORGE V, A. 1917

BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF THREE RIVERS—

1915.							
July	7	Linseed Oil Crude.	69106 Chas. Leblanc, Joliette....	3 pts.	45	Can. Paint Co., Montreal.	.....
"	8	"	63115 S. Costello, Joliette.....	3 "	38	"	.....
"	7	"	69116 Edm. Wodon, Joliette....	3 "	38	The Joliette Steel Co., Joliette.	.....
"	9	"	69117 Monahan Bros., St. Lin....	3 "	40	Imperial Oil Co., Montreal.	.....
"	19	"	69118 George Beaudoin, St. Esprit.	3 "	45	Can. Paint Co., Montreal.	.....
"	12	"	69119 E. Lamion, L'Epiphanie...	3 "	45	"	.....
"	22	"	69120 L. O. Lassalle, St. Jacques.	3 "	45	Caverhill Learmcnt, Montreal.	.....
"	13	"	69121 Bedard Cie, L'Assomption..	3 "	40	Can. Paint Co., Montreal.	.....
"	23	"	69163 J. A. Bellerose, St. Felix de Valois.	3 "	48	Lewis Bros, Montreal.	.....
"	23	"	69164 Wilfred Bonin, St. Felix de Valois.	3 "	48	Can. Paint Co., Montreal.	.....

DISTRICT OF EASTERN TOWNSHIPS—

Aug.	11	Raw Linseed Oil.	63060 W. Bourque, Sherbrooke...	3 pts.	40	.....	.....
"	11	"	63061 Jos. Lacombe et fils, Sherbrooke.	3 "	35	Mount Royal Colour & Varnish Co., Montreal.	.....
"	11	"	63062 Marc. E. Cadieux, Sherbrooke.	3 "	45	Georgia Turpentine Co.	.....
"	11	"	63063 Coderie & fils, Inc., Sherbrooke.	3 "	45	Martin Senour Co., Ltd., Montreal.	.....
"	11	"	63064 J. S. Mitchell & Co., Sherbrooke.	3 "	60	Dom. Linseed Oil Co., Montreal.	.....
"	13	"	63065 Beaunoyer & Lalime, St. Hyacinthe.	3 "	37	Can. Paint Co., Montreal.	.....
"	13	"	63066 J. B. St. Pierre, St. Hyacinthe.	3 "	38	.....	.....
"	17	"	63067 N. Mitchell & Co., Granby.	3 "	35	Sherwin-Williams, Ltd., Montreal.	.....
"	18	"	63068 E. E. Gauvin & Co., Magog.	3 "	35	.....	.....
"	18	"	63069 W. McKenna, Magog.....	3 "	35	Ramsay Sons & Co., Montreal.	.....

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Saponification Number.	Spot Test.	Unsatifiable Matter.		

DR. V. P. LAVALLEE, INSPECTOR.

.....	0.936	192.1	Linseed.	.....	69106	Genuine.
.....	0.933	190.9	"	.....	69115	"
.....	0.930	159.1	Indica- tes min eral oil	10.80	69116	Adulterated. Saponification too low. Some uncertainty in identi- fication of sample.
.....	0.933	192.1	Linseed.	.....	69117	Genuine.
.....	0.940	192.1	"	.....	69118	"
.....	0.935	192.8	"	.....	69119	"
.....	0.933	192.8	"	.....	69120	"
.....	0.933	191.5	"	.....	69121	"
.....	0.932	192.8	"	.....	69163	"
.....	0.933	192.1	"	.....	69164	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	0.935	190.9	Linseed.	.....	63060	Genuine.
.....	0.933	190.3	"	.....	63061	"
.....	0.934	186.8	Doubt- ful.	10.88	63062	Adulterated. Saponification too low.
.....	0.933	189.8	Linseed.	.....	63063	Genuine.
.....	0.935	189.1	"	.....	63064	"
.....	0.935	189.8	"	.....	63065	"
.....	0.935	189.1	"	.....	63066	"
.....	0.934	189.3	"	.....	63067	"
.....	0.933	190.0	"	.....	63068	"
.....	0.935	192.0	"	.....	63069	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
Aug.	4	Raw Linseed Oil.	67446 The People's Hardware Co., 152 St. Lawrence Boul., Montreal.	3 pts.	45	Unknown	
"	4	" ..	67447 L. J. A. Surveyor, 52 St. Lawrence Boul., Montreal	"	45	Mount Royal Colour and Varnish Co.	
	16	" ..	67448 A. Brouillet, 1390 St. Lawrence Boul., Montreal.	3 "	38	Can. Paint Co.	
	16	" ..	67449 O. Rollin & Co., 1324 St. Lawrence Boul., Montreal	3 "	38	Martin Senour Co.	
"	16	" ..	67450 Beauvais Freres, 336 St. Lawrence Boul., Montreal	3 "	45	Unknown	
"	23	" ..	67451 J. O. Denis, 239 St. Paul St. E., Montreal.	3 "	30	Mount Royal Colour & Varnish Co.	
"	24	" ..	67452 Levac & Lalonde, 187 Church Ave., Verdun.	3 "	40	Martin Senour Co.	
"	24	" ..	67453 Fanteux Ltd., 1365 Wellington St., Verdun.	3 "	40	Can. Paint Co.	
"	24	" ..	67454 The Raymond Hardware Ltd., 343 Notre Dame St. W., Montreal.	3 "	38	Unknown	
"	24	" ..	67455 I. L. Lafleur, 366 Notre Dame St. W., Montreal.	3 "	38	Don. Linseed Oil Co.	

DISTRICT OF VALLEYFIELD—

July	22	Raw Linseed Oil.	57981 L. P. Beaulne, Hawkesbury.	3 pts.	40	Can. Paint Co.	
"	22	" ..	57982 J. G. Higginson, " ..	3 "	25	Brandram Henderson Co.	
"	22	" ..	57983 J. O. Phoenix, " ..	3 "	45	Can. Paint Co.	
"	27	" ..	57984 Victor Lezer, Valleyfield ..	3 "	40	.....
"	27	" ..	57985 Besner Chasle, " ..	3 "	36	.....
"	27	" ..	57986 N. Langevin, " ..	3 "	35	.....
"	27	" ..	57987 A. Lebeuf, " ..	3 "	35	McColl Bros. Montreal.	
"	28	" ..	57988 August Forget, St. Johns ..	3 "	30	" "	
"	28	" ..	57989 C. O. Gervais & Frere " ..	3 "	40	.....
"	28	" ..	57990 E. Laberge, Sherville ...	3 "	35	.....

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinions of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.		

D. J. KEARNEY, INSPECTOR.

.....	.....	0.939	189.8	Linseed.	.....	67446	Genuine.
.....	.....	0.936	186.7	"	2.52	67447	Doubtful; Unsaponified residue high.
.....	.....	0.936	191.4	"	.....	67448	Genuine.
.....	.....	0.934	190.9	"	.....	67449	"
.....	.....	0.935	189.8	"	.....	67450	"
.....	.....	0.935	189.8	"	.....	67451	"
.....	.....	0.935	190.2	"	.....	67452	"
.....	.....	0.933	191.4	"	.....	67453	"
.....	.....	0.935	190.9	"	.....	67454	"
.....	.....	0.934	190.9	"	.....	67455	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	.....	0.938	192.1	Linseed.	.....	57981	Genuine.
.....	.....	0.935	193.4	"	.....	57982	"
.....	.....	0.934	190.2	"	0.82	57983	"
.....	.....	0.934	190.2	"	.....	57984	"
.....	.....	0.934	191.5	"	.....	57985	"
.....	.....	0.933	190.9	"	.....	57986	"
.....	.....	0.909	133.8	Doubtful	25.30	57987	Adulterated; low saponification test.
.....	.....	0.935	192.8	Linseed.	.....	57988	Genuine.
.....	.....	0.930	148.4	Doubtful	20.76	57989	Adulterated; low saponification test.
.....	.....	0.934	189.6	Linseed.	0.78	57990	Genuine.

7 GEORGE V, A. 1917
BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name And Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1915.							
July 16	Raw Linseed Oil.	59292	E. J. McFarry, Renfrew.	3 pts.	35	Ottawa Paint Works, Ottawa.	Mfrs.
" 16	" " "	59293	Devine & Legree, Renfrew.	3 "	45	Livingstone Linseed Oil Co., Montreal.	"
" 17	" " "	59294	R. H. Smart, Brockville.	3 "	30	Sherwin Williams, Montreal.	"
" 17	" " "	59295	A. G. Dobbie & Co., Brockville.	3 "	40	Can. Linseed Oil Mills, Montreal.	"
" 17	" " "	59296	B. D. Steacy, Brockville.	3 "	45	Can. Paint Co., Montreal.	"
" 24	" " "	59297	Austin Jarvo, Cornwall.	3 "	35	Livingstone Linseed Oil Co., Montreal.	Stark, Seybold Ltd., Montreal
" 24	" " "	59298	N. Turner, & Son, Cornwall.	3 "	35	Ottawa Paint Works, Ottawa.	Mfrs.
" 31	" " "	59299	J. M. Taylor, Pembroke.	3 "	45	" " "	"
" 31	" " "	59300	Dunlop & Co., Ltd., Pembroke.	3 "	45	" " "	"
Aug. 7	" " "	51700	Stephen Pilon, Rockland.	3 "	36	" " "	"
" 13	" " "	63694	Taylor Bros., Carleton Place.	3 "	35	McArthur & Irvine, Montreal.	"
" 13	" " "	63695	W. J. Muirhead, Carleton Place.	3 "	35	" " "	"

DISTRICT OF KINGSTON—

July 28	Raw Linseed Oil.	70241	Savage & Wightman, Kingston.	3 pts.	18	Sanderson & Percy Co., Toronto.	.....
" 28	" " "	70242	Robinson Bros., Kingston.	3 "	32	.....	J. H. Morin, Toronto.
" 28	" " "	70243	A. Chown & Co., Kingston.	3 "	15	Livingstone, Montreal.	.....
" 28	" " "	70244	John Laird & Son, Kingston.	3 "	20	.....	Dalton & Son, Kingston.
" 28	" " "	70245	H. W. Marshall, Kingston.	3 "	45	.....	" "
" 28	" " "	70246	Simmons Bros., Kingston.	3 "	20	Sherwin Williams, Montreal.	.....
" 28	" " "	70247	J. B. Bunt & Co.	3 "	35	.....	Dalton & Son, Kingston.
" 28	" " "	70248	W. A. Mitchell, Kingston.	3 "	30	.....	" "
" 28	" " "	70249	Batford & Nicol, Kingston.	3 "	45	.....	W. A. Mitchell, Kingston.
" 28	" " "	70250	McKelvey & Birch, Kingston.	3 "	30	McArthur & Irvine, Montreal.	.....

SESSIONAL PAPER No. 14

RAW LINSEED OIL

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.		

J. A. RICKEY, INSPECTOR.

.....	.....	0.934	188.2	Linseed	.....	59292	Genuine
.....	.....	0.934	188.2	"	1.60	59293	"
.....	.....	0.933	188.8	"	.....	59294	"
.....	.....	0.934	188.8	"	.....	59295	"
.....	.....	0.935	190.9	"	.....	59296	"
.....	.....	0.933	190.9	"	.....	59297	"
.....	.....	0.934	190.9	"	.....	59298	"
.....	.....	0.933	191.5	"	.....	59299	"
.....	.....	0.933	190.9	"	.....	59300	"
.....	.....	0.935	189.8	"	.....	51709	"
.....	.....	0.934	192.1	"	.....	63694	"
.....	.....	0.934	191.5	"	.....	63695	"

JAMES HOGAN, INSPECTOR.

.....	.....	0.933	193.4	Linseed	.....	70241	Genuine
.....	.....	0.934	194.0	"	.....	70242	"
.....	.....	0.933	193.4	"	.....	70243	"
.....	.....	0.934	194	"	.....	70244	"
.....	.....	0.933	192.8	"	.....	70245	"
.....	.....	0.933	193.4	"	.....	70246	"
.....	.....	0.934	193.4	"	.....	70247	"
.....	.....	0.934	192.5	"	.....	70248	"
.....	.....	0.934	190.8	"	.....	70249	"
.....	.....	0.934	190.8	"	.....	70250	"

7 GEORGE V, A. 1917

BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1915.							
Aug. 8	Raw Linseed Oil.	70064	H. Stainton, 44 Vaughan Rd., Toronto.	3 bots.	30	Can. Linseed Oil Co., Baden.	...
" 10	"	70065	R. P. Freek, 681 St. Claire, Toronto.	3 "	40	.....	H. H. Broadfield, Toronto.
" 11	"	70066	McMillan & Costin, 166 Main St., Toronto.	3 "	30	Sherwin-Williams, Ltd., Toronto.	.....
" 13	"	70067	Cutts Hardware Co., 1824 Dundas St. W., Toronto.	3 "	30	.....	Martin, Senour, Ltd., Toronto.
" 14	"	70068	A. M. Oldham, Weston	3 "	45	Sherwin-Williams, Ltd., Toronto.	.....
" 16	"	70069	Geo. Garrett, 582 College St., Toronto.	3 "	30	.....	Stewart & Wood, Toronto.
" 16	"	70070	J. Jolly, 702 College St., Toronto.	3 "	45	.....	" "
" 8	"	70071	Johnson & Co., 1000 Dundas St., Toronto.	3 "	30	Sherwin-Williams, Ltd., Toronto.	.....
" 18	"	70072	M. Toose, 121 Roncesville Ave., Toronto.	3 "	40	Turpentine Producers, Ltd., Toronto.	.....
" 20	"	70073	P. J. Madigan, 1130 Queen St. W., Toronto.	3 "	35	Sherwin-Williams, Ltd., Toronto.	.....

DISTRICT OF HAMILTON—

July 21	Raw Linseed Oil.	70051	W. W. McClelland & Co., Niagara-on-the-Lake.	3 pts.	20	Sherwin-Williams Co., Montreal.	.....
" 22	"	70052	Coy Bros., 73 St. Paul St., St. Catharines.	3 "	45	.....	Unknown
" 23	"	70053	J. T. Henderson, 43 Queen St., Niagara Falls.	3 "	40	.....	Hobbs Hardware Co. Ltd., London.
" 23	"	70054	Garner Bros., 122 Main St., Niagara Falls S.	3 "	35	Sherwin-Williams Co., Ltd., Toronto.	.....
" 24	"	70055	Chas. Kister, Chippawa	3 "	38	.....	Unknown
" 28	"	70056	Smith & Schaefer, Bolton	3 "	25	.....	Sanderson, Pearey Co., Toronto.
Aug. 3	"	70057	J. A. Hendeson, Brampton.	3 "	35	.....	Sherwin-Williams Co., Toronto.
" 4	"	70058	L. Y. Reid, Georgetown	3 "	40	Sherwin-Williams Co., Toronto.	.....
" 5	"	70059	A. J. Wright, 205 James St. N., Hamilton.	3 "	25	Livingstone Linseed Oil Co., Baden.
" 5	"	70060	A. Oliver, 248 York St., Hamilton.	3 "	25	Wood & Valance Co., Ltd., Hamilton.

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RAW LINSEED OIL.

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	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.		

H. J. DAGER, INSPECTOR.

		0.934	191.5	Lin- seed.		70064	Genuine.
		0.936	192.1	"		70065	"
		0.933	192.1	"		70066	"
		0.934	192.1	"		70067	"
		0.933	191.5	"		70068	"
		0.936	187.7	"	0.62	70069	"
		0.933	192.8	"		70070	"
		0.935	192.1	"		70071	"
		0.925	169.9	Doubt- ful.	9.68	70072	Adulterated. Saponification too low.
		0.933	192.8	Lin- seed.		70073	Genuine

H. J. DAGER, ACTING INSPECTOR.

		0.934	190.9	Lin- seed.		70051	Genuine.
		0.935	192.8	"		70052	"
		0.934	191.5	"		70053	"
		0.931	189.6	"		70054	"
		0.940	191.5	"		70055	"
		0.932	191.5	"		70056	"
		0.933	192.8	"		70057	"
		0.934	191.5	"		70058	"
		0.934	192.1	"		70059	"
		0.933	192.1	"		70060	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vender.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR							
1915.							
Aug. 9	Raw Linseed Oil.	54643	Odell & Mitchell, London..	3 bots.	20	Livingstone Oil Co., Baden.	.....
" 9	"	54645	Love Hardware Co., London.	3 "	25	" "	.....
" 9	"	54647	J. G. Steele & Co., London.	3 "	25	.....	Howden Hardware Co., London.
" 10	"	54649	A. Westman, London.....	3 "	20	.....	" "
" 10	"	54651	Kilpatrick Bros., London...	3 "	20	.....	" "
" 10	"	54653	F. E. Jones, London East.	3 "	10	.....	G. A. Burdick & Son, London.
" 12	"	54656	Fred W. Karn, Woodstock.	3 "	20	Livingstone Linseed Oil Co., Baden.	.....
" 12	"	54658	J. N. Smiley, Woodstock.	3 "	20	.....	Davidson & McInnes, Woodstock.
" 12	"	54661	Davidson & McInnes, Woodstock.	3 "	25	.....	T. N. Dunn, Ingersoll.
" 13	"	54663	McMurtry Hardware Co., St. Thomas.	3 "	12½	Sherwin Williams Co., Toronto.	.....
" 13	"	54665	Jackson & Firth, St. Thomas	3 "	30	" "	.....
" 13	"	54668	A. E. Campbell, St. Thomas	3 "	17½	.....	Hobb's Hardware Co., London.

DISTRICT OF MANITOBA—

Aug. 4	Raw Linseed Oil.	61328	R. Steiman Hardware Co., 541 Selkirk Ave., Winnipeg.	3 pts.	60	.....	S. F. Stephens Co., Winnipeg.
" 4	"	61330	Tulley & Davey, 1772 Main St., Winnipeg.	3 "	60	.....	Marshall Wells, Winnipeg.
" 5	"	61332	R. Thornton, 262 Tache Ave. Norwood.	3 "	60	.....	Wood Valasee Co., Winnipeg
" 4	"	61335	Walter Johnson, 563 Sherbrooke St., Winnipeg.	3 "	60	.....	" "
" 4	"	61336	Andrew & Sons, Victor St., Winnipeg.	3 "	60	.....	Can. Paint Co., Winnipeg.
" 5	"	61337	Allaire & Bleau, 568 Tache Ave., St. Boniface.	3 "	60	.....	Sherwin Williams, Winnipeg.
" 7	"	61341	H. R. Wood, Napinka, Man.	3 "	45	.....	" "
" 9	"	61342	C. J. Wyers, 763 13th St., Brandon.	3 "	60	.....	Winnipeg Oil Co., Winnipeg
" 12	"	61343	A. J. Bond & Co., 1763 Portage Ave., St. James.	3 "	60	.....	Merrick Anderson, Winnipeg
" 12	"	61344	Aikenhead Clarke Hardware, Boyd Building, Winnipeg.	3 "	60	.....	Scrape & Co., Winnipeg.

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report (Is not an expres- sion of Opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.5° C.	Superficial Number.	Spot Test.	Unacidifiable Matter.	Iodine Number.	Time of drying at 70° C.	Time of drying in air.	

JOHN TALBOT, INSPECTOR.

.....	0 934	190.9	Linseed	...	.....	.....	.....	.....	54643	Genuine.
.....	0 934	190.9	"	.....	.....	.....	.....	.....	54645	"
.....	0 933	192.7	"	.....	.....	.....	.....	.....	54647	"
.....	0 935	191.4	"	.....	.....	.....	.....	.....	54649	"
.....	0 935	191.5	"	.....	.....	.....	.....	.....	54651	"
.....	0 936	192.1	"	.....	.....	.....	.....	.....	54653	"
.....	0 934	192.1	"	.....	.....	.....	.....	.....	54656	"
.....	0 934	192.1	"	.....	.....	.....	.....	.....	54658	"
.....	9 933	190.9	"	.....	.....	.....	.....	.....	54661	"
.....	0 934	192.1	"	.....	.....	.....	.....	.....	54663	"
.....	0 934	190.2	"	.....	.....	.....	.....	.....	54665	"
.....	0 934	192.1	"	.....	.....	.....	.....	.....	54668	"

J. B. COSGROVE, TEMP. INSPECTOR.

		Sp. Grav. at 15.5° C.								
.....	1 4809	0 9275	180.0	Linseed	.....	180.5	30 hrs.	3 days	61328	Doubtful reaction to
.....	1 4814	0 9333	192.1	"	.....	189.2	30 "	3 "	61330	Genuine
.....	1 4822	0 9340	191.8	"	.....	196.7	48 "	3 "	61332	"
.....	1 4814	0 9330	193.4	"	.....	190.8	48 "	3 "	61335	"
.....	1 4814	0 9331	191.7	"	.....	190.8	48 "	3 "	61336	"
.....	1 4820	0 9342	191.4	"	.....	197.7	48 "	3 "	61337	"
.....	1 4811	0 9332	190.6	"	.....	191.2	48 "	3 "	61341	"
.....	1 4820	0 9321	190.2	"	.....	193.7	48 "	3 "	61342	"
.....	1 4816	0 9338	192.7	"	.....	193.6	48 "	3 "	61343	"
.....	1 4818	0 9337	191.1	"	.....	194.6	30 "	3 "	61344	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1915.							
July 19	Raw Linseed Oil.	66397	Peart Bros., Regina.....	3 pts.	50	Unknown	
" 20	" ..	66399	John Goebel, Melville.....	3 "	50	Winnipeg Oil Co., Melville.....	
" 20	" ..	66401	E. Smith, "	3 "	50	Can. Paint Co....	
" 20	" ..	66403	Wm. Anderson, "	3 "	40	Sherwin Williams Co., Winnipeg.....	
" 21	" ..	66411	Chas. Beck, Yorktown.....	3 "	50	Winnipeg Oil Co., Yorktown.....	
" 21	" ..	66414	Clemm & Lange, "	3 "	60	" "	
" 22	" ..	66417	Isbister & Pretty, Saskatoon	3 "	60	Marshall Wells, Winnipeg.....	
" 23	" ..	66419	Fawcett Hardware Co. " ..	3 "	40	J. H. Ashdowne, Winnipeg.....	
" 23	" ..	66420	Saskatoon Hardware Co., Saskatoon.	3 "	30	Winnipeg Oil Co., Saskatoon.....	
" 23	" ..	66421	Burnett Bros., Saskatoon...	3 "	30	J. H. Ashdowne, Winnipeg.....	

DISTRICT OF ALBERTA—

Aug. 10	Raw Linseed Oil.	52256	Northern Hardware Co., Edmonton.	3 pts.	40	Sherwin Williams Winnipeg.....	
" 10	" ..	52257	Chown Hardware Co., Edmonton.	3 "	60	G. F. Stephen & Co., Winnipeg.....	
" 10	" ..	52258	Somerville Hardware Co., Edmonton.	3 bts.	60	Marshall Wells Alberta Co., Edmonton.	
" 10	" ..	52259	Cameron Co. Ltd., Edmonton.	3 "	50	B. A. Paint Co., Edmonton.....	
" 12	" ..	52260	G. D. Wallace Ltd., Wetaskiwin.	3 "	50	J. H. Ashdowne & Co., Winnipeg.....	
" 13	" ..	52261	A. M. Campbell, Lacombe..	3 "	40	" "	
" 13	" ..	52262	Morrison & Johnston Ltd., Lacombe.	3 "	35	Alta. Linseed Mills Medicine Hat.....	
" 20	" ..	52263	J. H. Ashdown Hardware Co., Calgary.	3 "	30	" "	
" 20	" ..	52264	Marshall Hardware Ltd., Calgary.	3 "	60	Calgary Paint and Glass Co.	
" 20	" ..	52265	Hall Hardware Co., Calgary	3 "	25	Sherwin Williams Calgary.....	

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 20° C.	Specific Gravity at 15.6° C.	Saponification Number.	Spot Test.	Unsatifiable Matter.	Iodine Number.	Time of Drying at 70° C.		

L. H. HALL, INSPECTOR.

.....	1.4810	0.9333	189.4	Linseed.	.....	188.0	36 hrs.	3 days	66397	Genuine.
.....	1.4812	0.9330	190.3	"	.....	188.6	30 "	3 "	66399	"
.....	1.4824	0.9355	194.0	"	.....	197.4	30 "	3 "	66401	"
.....	1.4820	0.9345	191.7	"	.....	184.1	36 "	3 "	66403	"
.....	1.4810	0.9323	190.3	"	.....	187.0	48 "	3 "	66411	"
.....	1.4810	0.9325	192.2	"	.....	185.3	48 "	3 "	66414	"
.....	1.4813	0.9337	191.7	"	.....	191.5	48 "	3 "	66417	"
.....	1.4809	0.9336	191.8	"	.....	188.3	48 "	3 "	66419	"
.....	1.4809	0.9335	192.7	"	.....	187.0	30 "	3 "	66420	"
.....	1.4809	0.9333	193.1	"	.....	189.0	30 "	3 "	66421	"

A. W. R. MARKLEY, INSPECTOR.

	Refractive Index at 25° C.	Specific Gravity at 15.5° C.								
.....	1.4805	0.9350	188.0	.....	.....	185.0	13 hrs.	.....	52256	Genuine.
.....	1.4802	0.9339	189.0	.....	.....	191.0	13 "	.....	52257	"
.....	1.4800	0.9313	196.0	.....	.....	189.0	13 "	.....	52258	"
.....	1.4795	0.9317	189.0	.....	.....	187.0	13 "	.....	52259	"
.....	1.4800	0.9338	180.0	.....	.....	187.0	13 "	.....	52260	"
.....	1.4808	0.9335	186.0	.....	.....	186.0	20 "	.....	52261	"
.....	1.4802	0.9335	186.0	.....	.....	183.0	13 "	.....	52262	"
.....	1.4807	0.9335	186.0	.....	.....	188.0	13 "	.....	52263	"
.....	1.4803	0.9339	188.0	.....	.....	188.0	19 "	.....	52264	"
.....	1.4796	0.9330	188.0	.....	.....	182.0	19 "	.....	52265	"

7 GEORGE V, A. 1917

BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1915.							
July 20	Raw Linseed Oil.	61846	N. Wilmes, Trail	3 pts.	60	Sherwin-Williams Co., Montreal.	.....
" 20	"	61853	Hunter Bros., Rossland	3 "	40	.....	Jones & Dillingham, Spokane.
Aug. 6	"	61868	Vernon Hardware Co., Vernon.	3 "	60	.....	Woods, Vallance & Leggett, Vancouver.
" 10	"	61873	Wilcox Hall, Kamloops ..	3 "	50	.....	McLellan & McFeely, Vancouver.
" 10	"	61874	Marlatt & McKenzie, Kamloops.	3 "	50	B. A. Paint Co., Victoria.	.....
" 10	"	61877	N. S. Dalgleish, Kamloops..	3 "	50	Sherwin-Williams Co., Montreal.	.....
" 16	"	61881	Merritt Mercantile Co., Merritt.	3 "	65	.....	Woods, Vallance & Leggett, Vancouver.
" 16	"	61884	Armstrong's Deptl. Stores, Merritt.	3 "	50	.....	E. G. Prior & Co., Victoria.
" 16	"	61885	J. A. Menzie's, Ltd., Merritt.	3 "	50	.....	McLellan & McFeely, Vancouver.

DISTRICT OF VANCOUVER—

July 28	Raw Linseed Oil.	55338	W. C. Stearman, 613 Granville St., Vancouver.	3 bots.	60	Sherwin-Williams Co., Montreal.	.....
" 28	"	55339	Hunter, Henderson Paint Co., 642 Granville St., Vancouver.	3 "	60	B. A. Paint Co., Victoria.	.....
" 29	"	55340	F. R. Begg & Co., Ltd., 167 Pender St. W., Vancouver.	3 "	50	A. Ramsay & Son, Montreal.	.....
" 29	"	55341	Imperial Varnish and Colour Co., Ltd., 42 Pender St. W., Vancouver.	3 "	60	Vendors.....	.....
" 29	"	55342	Wood, Vallance & Leggett, 8 Cordova St. W., Vancouver.	3 "	40	Unknown .....	.....
" 30	"	55343	R. C. Jamieson & Co., 1073 Hamilton St., Vancouver.	3 "	40	Vendors.....	.....
" 30	"	55344	Crown Paint Co., 24 Cordova St. E., Vancouver.	3 "	50	Strathelyde Oil and Grease Works, Glasgow, Scot.	.....
" 31	"	55345	Cunningham Hardware Co., Columbia St., New Westminster.	3 "	45	B. A. Paint Co., Victoria.	.....
" 31	"	55346	T. J. Trapp & Co., Ltd., Columbia St., New Westminster.	3 "	50	Unknown .....	.....
" 31	"	55347	H. T. Kirk, Columbia St., New Westminster.	3 "	60	Alberta Linseed Oil Mills, Medicine Hat.

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RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 25° C.	Sp. Gr. at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.	Iodine Number (Hamel).	Time of Drying at 70° C.	Time of Drying in Air.	

THOS. PARKER, INSPECTOR.

.....	1.4795	0.9327	188.0	.....	.....	188.0	19 hrs.	.....	61846	Genuine.
.....	1.4806	0.9337	189.0	.....	.....	189.0	19 "	.....	61855	"
.....	1.4802	0.9341	189.0	.....	.....	188.0	19 "	.....	61868	"
.....	1.4807	0.9335	188.0	.....	.....	189.0	19 "	.....	61873	"
.....	1.4802	0.9337	189.0	.....	.....	186.0	19 "	.....	61874	"
.....	1.4808	0.9348	189.0	.....	.....	190.0	19 "	.....	61877	"
.....	1.4798	0.9330	190.0	.....	.....	183.0	24 "	.....	61881	"
.....	1.4805	0.9338	189.0	.....	.....	188.0	19 "	.....	61884	"
.....	1.4802	0.9338	190.0	.....	.....	185.0	19 "	.....	61885	"

E. J. MORGAN, INSPECTOR.

.....	1.4803	0.9350	189.0	.....	.....	193.0	13 hrs.	.....	55338	Genuine.
.....	1.4801	0.9341	188.0	.....	.....	190.0	13 "	.....	55339	"
.....	1.4800	0.9331	188.0	.....	.....	186.0	39 "	.....	55340	"
.....	1.4790	0.9257	174.0	.....	0.86	177.0	19 "	.....	55341	Doubtful; unsound, cutting low.
.....	1.4808	0.9339	190.0	.....	.....	184.0	19 "	.....	55342	"
.....	1.4798	0.9333	190.0	.....	.....	186.0	19 "	.....	55343	"
.....	1.4787	0.9210	188.0	.....	.....	175.0	20 "	.....	55344	"
.....	1.4800	0.9319	188.0	.....	.....	186.0	30 "	.....	55345	"
.....	1.4800	0.9333	186.0	.....	.....	185.0	19 "	.....	55346	"
.....	1.4802	0.9342	189.0	.....	.....	188.0	19 "	.....	55347	"

7 GEORGE V, A. 1917

BULLETIN No. 332—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher

DISTRICT OF VICTORIA—

1915.							
Sept. 24	Raw Linseed Oil.	66789	Mellon Bros., P.O. Box 382, Victoria.	3 pts.	60	.....	F. R. Begg, Ltd., Vancouver.
" 24	"	66791	The Staneland Co., 840 Fort St., Victoria.	3 "	75	.....	Burrell & Co., London, Eng.
" 27	"	66794	H. Harkness & Son, 919 Pandora St., Victoria.	3 "	75	.....	B. A. Paint Co., Victoria.
" 27	"	66796	J. L. Forrester, 1304 Douglas St., Victoria.	3 "	45	.....	" "
" 28	"	66798	P. McQuade & Son, Ltd., 1214 Wharf St., Victoria.	3 "	50	.....	Sherwin-Williams, Winnipeg.
" 28	"	66800	E. B. Marvin & Co., 1202 Wharf St., Victoria.	3 "	45	.....	B. A. Paint Co., Victoria.
" 29	"	66602	British-American Paint Co., Laurel Point, Victoria.	3 "	25	.....	Alberta Linseed Oil Mills, Medicine Hat.
" 29	"	66604	The Melrose Co., Ltd., Fort St., Victoria.	3 "	60	.....	A. Ramsay & Co., Montreal.

SESSIONAL PAPER No. 14

RAW LINSEED OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Refractive Index at 25° C.	Sp. Gr. at 15.5° C.	Saponification Number.	Spot Test.	Unsaponifiable Matter.	Iodine Number (Hanus).	Time of Drying at 70° C.	Time of Drying in Air.	

D. O'SULLIVAN, INSPECTOR.

.. .. .	1.4800	0.9342	190.0	.. .. .	.. .. .	185.0	19 hrs.	.. .. .	66789	Genuine.
.. .. .	1.4792	0.9324	189.0	.. .. .	.. .. .	178.4	19 "	.. .. .	66791	"
.. .. .	1.4802	0.9342	189.0	.. .. .	.. .. .	182.0	19 "	.. .. .	66794	"
.. .. .	1.4802	0.9343	189.0	.. .. .	.. .. .	183.0	19 "	.. .. .	66796	"
.. .. .	1.4800	0.9338	189.0	.. .. .	.. .. .	185.0	19 "	.. .. .	66798	"
.. .. .	1.4800	0.9339	189.0	.. .. .	.. .. .	185.0	19 "	.. .. .	66800	"
.. .. .	1.4800	0.9335	190.0	.. .. .	.. .. .	186.0	19 "	.. .. .	66802	"
.. .. .	1.4805	0.9342	189.0	.. .. .	.. .. .	189.0	19 "	.. .. .	66804	"

APPENDIX X.

BULLETIN No. 333—FORMALIN.

OTTAWA, January 21, 1916.

J. U. VINCENT, Esq.

Deputy Minister of Inland Revenue.

SIR,—Solution of Formaldehyde (Liquor Formaldehydi) of the British Pharmacopœia is defined as an aqueous solution of Formaldehyde, containing in 100 millilitres (cubic centimetres) not less than 36 and not more than 38 grammes of formaldehyde. This is a quantitative statement of weight in volume.

Squires' Companion to the Pharmacopœia adds: "The commercial article *Formol* or *Formalin* is stated to be a 40 per cent solution. Since the specific gravity of this solution is about 1.080, it follows that a weight in volume solution of 36 per cent formaldehyde would represent only 33.3 per cent by weight in 100 parts by weight.

Manufacturers claim that they furnish a 40 per cent solution weight in volume; that is, a solution of 40 parts formaldehyde by weight in 40 parts of Formalin by volume. This is equivalent to a weight in weight percentage of about 37.

Formalin is largely used as a disinfectant, for all the purposes of this class of articles; but is perhaps chiefly in demand for treatment of seed grain.

The present report deals with sixty-eight (68) samples, purchased in October and November last, in consequence of complaints received by this department (L. 134431). Examination shows all of the samples to be genuine if regarded as Liquor Formaldehydi of the Pharmacopœia.

If regarded as 40 per cent solutions (weight in volume) of formaldehyde—said to be the commercial Formalin—four (4) samples are found to be slightly below requirements. Since, however, *Formalin* has no legal status under the Adulteration Act, I am unable to declare adulteration in these cases. The report, as a whole, shows that commercial Formalin, as sold in Canada, is of very good quality.

I beg to recommend publication of this report as Bulletin No. 333.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 333—FORMALIN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, As given by the Vendor.		Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer,	Furnisher.		Formaldehyde by Weight.	Formaldehyde Volume.		

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

1915.												
Nov. 23	Formalin.	67271	J. A. Harte, 148 Notre-Dame St., West, Montreal.	12 ozs.	75	Lynan-Knox Co.			36.6	p.c.	67271	Meets legal requirement.
" 29	"	67272	Leduc's Drug Store, 414 boilez Square, Montreal.	12 "	60	Unknown			39.2	43.1	67272	"
" 29	"	67273	A. LeBeau, 465 St. James Square, Montreal.	9 "	75	Lymans Ltd.			38.6	42.4	67273	"
" 29	"	67274	National Drug & Chemical Co., Montreal.	12 "	30	Vendor			37.6	41.3	67274	"
" 29	"	67275	Chas. E. Frosst & Co., Montreal.	3 bots 100	100	"			37.2	40.9	67275	"
" 29	"	67276	Chapman-Dart Co., Montreal.	12 ozs.	50	Unknown			38.4	42.2	67276	"
" 29	"	67277	Parke-Davis & Co., Montreal.	12 "	40	Vendors			40.4	44.4	67277	"
" 29	"	67278	Lynan-Knox & Co., Montreal.	12 "	27	"			39.2	43.1	67278	"
" 29	"	67279	A. D. Gadhoum, 54 Craig St., West, Montreal.	12 "	50	Lymans Ltd.			36.0	39.6	67279	"
" 29	"	67280	Pharmacie Robert, Craig & St. Lawrence St., Montreal.	12 "	75	National Drug & Chemical Co.			37.2	40.9	67280	"

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DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Qty.	1	Formalin	69955	T. J. Watson, Stayner ..	1 lb..	30	National Drug & Chemical Co., of Canada, Drug Trading Co., Toronto.	37.6	41.3	69955	Meets Legal Requirements.
-	1	-	69956	Jury & Gregory, Collingwood ..	1 ..	50	.....	.....	.....	38.4	42.2	69956	"
-	1	-	69957	Dr. E. L. Cannolly, Collingwood ..	1 ..	50	.....	.....	.....	36.4	40.0	69957	"
-	14	-	69958	H. J. Robertson, Barrie ..	1 ..	50	.....	.....	.....	36.8	40.5	69958	"
-	14	-	69959	Geo. Monkman, Barrie ..	1 ..	40	Standard Chemical Co., Ltd., Toronto	.....	.....	37.2	40.9	69959	"
-	14	-	69960	A. E. Patterson, Allandale ..	1 ..	40	.....	.....	.....	34.2	31.7	69960	Slightly below accepted formalin strength.
-	15	-	69961	W. J. McGuire, Allandale ..	1 ..	50	Unknown.	.....	.....	37.8	41.6	69961	Meets Legal Requirements.
-	20	-	69962	Dr. P. A. McDonald, Port Hope ..	1 ..	35	.....	E. G. West & Co., Toronto.	.....	37.6	41.3	69962	"
-	20	-	69963	H. S. McCartney, Midland ..	1 ..	35	.....	National Drug & Chemical Co., Ltd. Hamilton.	.....	37.6	41.3	69963	"
-	25	-	69964	J. S. Fraleigh, Midland ..	1 ..	35	The Standard Chemical Co., Ltd., Toronto.	.....	.....	38.0	41.8	69964	"

DISTRICT OF HAMILTON—J. J. COSTIGAN, ACTING INSPECTOR.

Qty.	2	Formalin	69436	V. E. Christlaw, St. James St. N., Hamilton, Ont.	1 lb.	75	H. K. Wampole Co., Ltd.	.....	"Formalid"	35.8	39.4	58436	Meets legal requirements.
-	2	-	69437	Paterson's Linen Store, 241 St. James St. N., Hamilton, Ont.	1 ..	35	.....	.....	.....	.....	.....	58437	"
-	2	-	69438	James M. Walker, St. Paul St., Hamilton, Ont.	1 ..	50	Standard Chem. Co., Ltd.	.....	.....	40.4	44.4	58438	"
-	4	-	69439	W. Jeff. King St. S., Hamilton, Ont.	1 ..	50	N. D. and Chem. Co., Ltd.	.....	.....	36.6	40.3	58439	"
-	4	-	69440	Allen & McNamara, 360 Queen St., St. Catharines, Ont.	1 ..	50	H. K. Wampole Co., Ltd.	.....	.....	38.9	41.8	58440	"
-	4	-	69441	Geoff A. C. Cameron, Colborne St., Brantford, Ont.	1 ..	50	Nat. Drug and Chem. Co., Ltd., Hamilton	.....	.....	38.6	42.4	58441	"
-	6	-	69442	Charles Braden, Dalhousie St., Brantford, Ont.	1 ..	50	.....	.....	.....	39.0	42.9	58442	"

BULLETIN No. 333—FORMALIN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Formaldehyde by Weight.	Formaldehyde by Volume.		

DISTRICT OF HAMILTON—J. B. COSTIGAN, ACTING INSPECTOR—Continued.

1915.									p. c.	p. c.		
Oct.	4	Formalin.	58443	A. W. Smiley, Market St., Brantford, Ont.	1 lb.	40	.....	.....	38.2	42.0	58443	Meets legal requirements.
"	4	"	58444	S. Tapscott & Co., 24 Mar- ket St., Brantford, Ont.	1 "	50	Nat. Drug and Chem. Co., Ltd.	.....	36.6	40.3	58444	"
"	4	"	58445	T. George Bobs, Colborne St., Brantford, Ont.	1 "	50	.....	.....	38.6	42.4	58445	"

DISTRICT OF MANITOBA—J. B. COSGROVE, TEMPORARY INSPECTOR.

Oct.	5	Formalin.	61416	McLellan Pharmacy, Sel- kirk Ave. and McKenzie, Winnipeg.	1½ lb.	60	.....	.....	35.10	38.6	61416	Slightly below ac- cepted formalin strength.
"	5	"	61417	H. D. Campbell, 988 Main St., Winnipeg.	1½ "	60	.....	.....	35.87	40.4	61417	Meets legal require- ments.
"	6	"	61418	J. K. Brown, 308 Nairn Ave., Elmwood, Winni- peg.	1 "	35	.....	.....	36.14	39.7	61418	"
"	6	"	61419	Kildonan Pharmacy, 2961 Hespler Ave., Winnipg.	"	50	.....	.....	36.88	40.5	61419	"
"	6	"	61420	Louis A. Rice, 16933, Port- age Ave., Winnipeg.	12 oz.	40	.....	.....	36.24	39.8	61420	"
"	6	"	61421	Ralph Magee, 1849½ Port- age Ave., Winnipeg.	lb.	40	35.15	38.6	61421	Slightly below ac- cepted formalin strength.

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DISTRICT OF SASKATCHEWAN—L. H. HALL, INSPECTOR.

61422 A. T. Brooking, 116 Osborne 1 St., Fort Rouge, Winni- peg.	60	Nat. Drug Co., Winnipeg.	35.75	39.3	61422 Meets legal require- ments.
61423 H. L. Brown, 175 Oslerne 1 St., Fort Rouge, Winni- peg.	75	Martin Bole & Wynn Co., Winnipeg.	36.93	40.6	61423 " "
61424 W. B. Davis, 217 Nassau 1 St., Fort Rouge, Winni- peg.	50	Nat. Drug Co., Winnipeg.	36.14	39.7	61424 " "
61425 Paynter Co., Westminster 1 Ave., Winnipeg.	45	Bole & Wynn Co.	36.13	39.7	61425 " "

66437 Moosejaw Drug and Stal 1 lb., Vernoy, Moosejaw.	20	Standard Chem. Co., Winnipeg.	36.91	40.6	66437 Meets legal require- ments.
66438 F. Marshall, Moosejaw	25	"	39.10	43.0	66438 " "
66439 H. A. Davidson, Moose 1 jaw.	25	"	36.46	40.1	66439 " "
66440 E. L. Colling, Moosejaw. 1 "	25	"	36.96	40.6	66440 " "

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

52271 E. M. Gawber, Medicine 2 bats, Hut.	50	Standard Chem., Iron and Lumber Co., Toronto.	36.8	40.4	52271 Meets legal require- ments.
52272 J. P. Sams, Medicine Hat 3 "	50	Standard Chem. Co., Winnipeg.	36.5	40.1	52272 " "
52273 Alberta Drug and Station 3 ery Co., Lethbridge.	49	J. D. Hyginbotham & Co., Leth- bridge.	37.0	40.7	52273 " "
52274 Kemp & Alf Co., Leth 3 bridge.	60	Nat. Drug and Chem. Co., Cal- gary.	36.8	40.4	52274 " "
52275 J. D. Hyginbotham & Co., 3 Leth.	50	Standard Chem., Iron and Lumber Co., Winnipeg.	37.3	41.0	52275 " "
52276 T. H. McCreedy, Leth 3 "	35	"	36.7	40.3	52276 " "
52277 The Federal Drug Co., 3 Leth.	45	Nat. Drug and Chem. Co., Cal- gary.	37.7	41.4	52277 " "

BULLETIN No. 333—FORMALIN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Formaldehyde by Weight.	Formaldehyde by Volume.		

DISTRICT OF ALBERTA—A. W. MARKLEY, INSPECTOR—Concluded.

1915.												
Nov. 19	Formalin.	52278	MacFarlane Drug Stores, 3 bots. Calgary.		45	Standard Chem. Iron and Lumber Co., Winnipeg.		.....	36 6	40-2	52278	Meets legal requirements.
" 19	"	52279	McDermid Drug Co., Ltd., Calgary.	3 "	35	"		.....	37 3	41-0	52279	"
" 19	"	52280	Oliver Bros., Ltd., Calgary	3 "	35	Nat. Drug and Chem. Co., Winnipeg.		.....	37 0	40-7	52280	"

DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Oct. 18	Formalin.	61887	Fort George Drug Co., 1 lb.. Prince George.		75	H. K. Wainpole Co., Perth, Ont.		.....	37 6	41-3	61887	Meets legal requirements.
Nov. 16	"	61894	A. F. Rankine Merritt, 1 " B.C.		65	Nat. Drug and Chem. Co., Vancouver.		.....	35 9	39-4	61894	"
Dec. 6	"	68104	Woodland & Quinn, Grand Forks	1 "	65	"	Nat. Drug and Chem. Co., Vancouver.	.....	34 9	38-3	68104	Slightly below accepted formalin strength.
" 6	"	68105	The Mann Drug Co., Grand Forks.	1 "	65	Nat. Drug and Chem. Co., Vancouver.		.....	35 9	39-4	68105	Meets legal requirements.

DISTRICT OF VANCOUVER—E. J. MORGAN, INSPECTOR.

1915.	Oct. 30	Fornalim.	55384	Marrett & Reid, 157 Hast 106 St., West, Vanc., B.C.	1 lb.	75	Standard Chem. Iron and Lumber Co., Montreal.	J. A. Tapscott, Ltd., Vanc. B.C.	p.c.	p.c.	55386	Meets legal require- ments,
-	-	-	55387	Woodward Dept. Stores, Ltd., Vanc., B.C.	1 "	50	Standard Chem. Iron and Lumber Co., Montreal.	.....	36.2	39.8	55387	"
Nov. 1	-	-	55388	Ovel Drug Co. Ltd., Gran- ville and Dunsmuir Sts., Vanc., B.C.	1 "	50	.....	.....	36.5	40.1	55388	"
-	-	-	55389	Burns Drug Co., Ltd. 732 Granville St., Vanc., B.C.	1 "	75	.....	J. A. Tapscott, Ltd., Vanc. B.C.	36.0	39.6	55389	"
-	-	-	55390	W. M. Harrison & Co., Ltd., Granville and Rob- son Sts., Vanc., B.C.	1 "	75	Standard Chem. Iron and Lumber Co., Montreal.	.....	36.8	40.4	55390	"
-	-	-	55391	Comphalls Ltd., Hasting and Granville Sts., Vanc., B.C.	1 "	75	.....	.....	38.1	41.9	55391	"
-	-	-	55392	Woods Pharmacy, 601 Hasting St., Vanc., B.C.	1 "	50	.....	J. A. Tapscott, Ltd., Vanc. B.C.	37.5	41.2	55392	"
-	-	-	55393	D. S. Curtis & Co., 659 Columbia St., New West- minster, B.C.	1 "	75	Unknown	.....	37.0	40.7	55393	"
-	-	-	55394	F. T. Hill, 608 Columbia St., New Westminster, B.C.	1 "	50	.....	Nat. Drug & Chem. Co.	36.5	40.1	55394	"
-	-	-	55395	C. S. Davis, 42 Sixth St. New Westminster,	1 "	50	Standard Chem. Iron and Lumber Co., Montreal.	36.2	39.8	55395	"

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APPENDIX Y.

BULLETIN No. 334—BUTTER.

OTTAWA, January 28, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon one hundred and thirty-eight (138) samples of Butter, purchased by our inspectors in October, November and December of last year.

The results of this inspection may be recapitulated as below:—

Found genuine..	122 samples.
“ adulterated..	4 “
“ slightly below standard requirements..	12 “
<hr/>	
Total..	138 “

In no instance has any fat other than milk fat been found.

Water is required not to exceed 16 per cent by weight. Even this amount of water is in excess of the normal content found in good butter. This fact may be verified by a study of the accompanying tables, as well as by noting previous reports. (See Bulletins 238 and 281.)

Butter fat is required to be not less than 82.5 per cent of the weight of the butter. Objection has been taken to this requirement, as excessive; and it is undeniable that, if the other components of butter are present in maximum legalized amount, the fat cannot reach 82.5 per cent. Thus if water be 16 per cent, salt 6 per cent (which may be regarded as the highest percentage tolerated by the palate) and curd 1 per cent the butter fat content cannot reach more than 77 per cent.

An inspection of our reports upon butter shows, however, that genuine butter is seldom if ever found to show all along the line maximum amounts of other substances than fat. In the present report, nearly 90 per cent of the samples reported contain more than 82.5 per cent of fat; and most of them notably exceed this limit. It could only be by strict supervision, with intent, that water, salt and curd could be adjusted to reach legal maxima.

Slight discrepancies in twelve (12) samples, herein reported, are regarded as negligible, and are not judged as adulterated.

I beg to recommend publication of this report as Bulletin No. 334.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1915.							
Oct. 21	Butter.....	64286	Rooney & Lovett, Halifax..	1½ lb.	57	Brookfield Creamery Co., Brookfield, N.S.	Manufacturer...
" 21	" . . .	64287	Smith & Proctor, " . .	1½ "	50	.....
" 27	"	64288	A. D. Bruce, " . .	1½ "	57	Lahave Creamery Co., Bridgewater, N.S.	R. B. Colwell, Halifax.
" 28	"	64289	P. T. Shea, " . .	1½ "	57	Crapaud Creamery Co., Crapaud, P. E. I.	Manufacturer...
Dec. 7	"	64290	C. J. Cochrane, Windsor...	2 "	70	Meadowbank Creamery Co., Hamilton, Ont.	F. W. Fearnmen Co., Hamilton, Ont.
" 7	"	64291	Lamont & Steadman, Kentville.	1½ "	45	S. C. McDonell, Canaan, N.S.	Manufacturer...
" 13	"	64292	B. O. Bishop, Dartmouth.	1½ "	57	Robt. Ramsay, Steviacka, N.S.	" ..
" 13	"	64293	G. A. Orman, " . .	1½ "	60	Lahave Creamery Co., Bridgewater, N.S.	R. B. Colwell, Halifax.
" 13	"	64294	Coleman & Eisener, Dartmouth.	1½ "	60	Acadia Dairy Co. Wolfville.	Smith & Proctor Halifax.

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 11	Butter.....	60378	P. J. Berrigan, Dunedin Lot 31.	1½ lb.	40	M. & K. McNeill, New Dunedin.	.....
" 13	"	60379	Beer & Goff, Charlottetown.	1½ "	48	Dunstaffnage Cheese & Butter Factory, Dunstaffnage.	.....
" 13	"	60380	J. C. Crabbe, " . .	1½ "	42	Edgar Easter, Hampshire, P.E.I.	.....
" 14	"	60381	P. A. Smith, " . .	1½ "	45	Mrs. Stead, Wheatley River, P.E.I.	.....
" 14	"	60382	" " . .	1½ "	45	.....	Market Dairy, Charlottetown

DISTRICT OF NEW BRUNSWICK—

Oct. 7	Butter.....	66166	Walter Gilbert, St. John, N.B.	1 lb..	54	Prince Crest Farm, St. John Co.	.....
" 12	"	66167	McBeath's Grocery, St. John, N.B.	1½ "	47	.....	Dearborn & Co., St. John.
" 14	"	66168	People's Dairy, R. H. Crothers, prop., St. John, N.B.	1½ "	54	Vendor .....	.....
" 14	"	66169	G. L. Craig, St. John, N.B.	1½ "	51	.....	W. Fenwick, City Market, St. John.
" 19	"	66170	M. E. Doohan, Fredericton.	1½ "	90	Unknown	Unknown
" 19	"	66171	A. E. Eardley, " . .	1½ "	55	Chas. Kee, Island View, York Co., N.B.

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BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Chard.	Water.	Ash.	Butyro-re- fractometer at 40° C.	Fat by difference.		

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.		
.....	11.55	3.86	44.1	84.59	64286	Genuine.
.....	14.11	3.02	43.4	82.87	64287	"
.....	13.28	4.50	43.0	82.22	64288	"
.....	12.74	2.78	43.9	84.48	64289	"
.....	11.64	2.50	42.9	85.86	64290	"
.....	14.11	1.95	41.6	83.94	64291	"
.....	15.16	1.75	41.7	83.09	64292	"
.....	14.18	4.10	41.5	81.72	64293	"
.....	12.92	1.14	41.4	85.94	64294	"

WM. A. WEEKS, INSPECTOR.

.....	.....	8.22	2.05	42.7	89.73	60378	Genuine.
.....	.....	10.67	2.73	43.1	86.60	60379	"
.....	.....	11.70	2.31	42.8	85.99	60380	"
.....	.....	10.62	2.18	43.2	87.20	60381	"
.....	.....	7.98	2.10	43.6	89.92	60382	"

JOHN C. FERGUSON, INSPECTOR.

Slab, .....	.....	16.30	3.96	43.2	79.74	66166	Water slightly in excess, and fat correspondingly low.
Tub, .....	.....	9.21	3.13	42.9	87.66	66167	Genuine.
Prints, .....	.....	11.73	2.70	43.8	85.57	66168	"
Box, .....	.....	12.43	1.21	44.9	86.36	66169	"
Dairy Bricks, .....	.....	9.37	5.86	44.3	84.83	66170	"
" Prints, .....	.....	10.74	3.93	44.1	85.33	66171	"

7 GEORGE V, A. 1917

BULLETIN No. 334—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1915.							
Oct. 20	Butter.....	66172	Woodstock Creamery Co., Woodstock, N.B.	1 print	60	Vendors....	
26	"	66173	Maritime Dairy Co., Sussex, N.B.	1½ lb.	55	"	
" 26	"	66174	Mills Eveleigh Co., Mapletown, Sussex.	1½ "	55	Sussex Cheese & Butter Co., Sussex	
" 27	"	66175	J. S. Dunlop, Moncton....	1½ "	45	John Hennessy, Malden, Westmoreland Co., N.B.	

DISTRICT OF QUEBEC CITY—

Oct. 4	Beurre	56536	A. Drolet, 714 St. Valier, Quebec.	2 lb.	70	Edmond Coté, Quebec.	
" 4	"	56537	J. Art. Bedard, 728 St. Valier, Quebec.	2 "	70	S. Gagnon, Quebec.	
" 4	"	56538	P. Larberge, 465 St. François St., Quebec.	2 "	70	J. B. Renaud, Quebec.	
" 4	"	56539	M. Tremblay, 8 St. Agnes, Quebec.	2 "	68	Emond Coté, Quebec.	
" 6	"	56540	Theo. Lebel, 86 Rue du Rocher, Quebec.	2 "	68	Ed. Sylvain	
" 6	"	56541	Jeremie Pepin, 132 Rue Massue, Quebec.	2 "	70	J. B. Renaud.....	
" 7	"	56543	O. Bacon, 28 Rue Hermine, Quebec.	2 "	70	Emond & Coté	
" 7	"	56544	E. Robitaille, 48 Rue Victoria, Quebec.	2 "	66	Dom. Fish and Fruit.	
" 6	"	56549	Jos. Vezina, 914 St. Valier, Quebec.	2 "	74	Dom. Fish Co.....	
" 7	"	56551	A. Larn, 35 Victoria, Quebec.	2 "	70	J. B. Renaud.....	

DISTRICT OF QUEBEC PROVINCE—

Oct. 13	Beurre	4427	Frs. Morin, Ste. Claire	1½ lb.	51	Vendor	
" 14	"	4429	Arthur Fradet, Armah.....	1½ "	55	P. Beauliam, St. Philemon Co., Bellechasse.	
" 1	"	330	Dme. Joseph Beauchamp, Ste. Jerome.	1½ "	48	E. Brosseau, Rivière à Gagnon.	
" 1	"	332	Chs. Elie Lafamme, Ste. Jerome.	2 "	64	J. R. Lanthier.....	
" 1	"	334	T. Lapointe, Ste. Jerome..	1½ "	51	Dolphis Dion, Lachapelle.	
" 2	"	336	Damien Hetu, Ste. Agathe des Monts.	1½ "	64	Beurre Lacosse....	
" 2	"	337	Hornisdas Monette, Ste. Agathe des Monts.	1½ "	60	Jos. St. Louis.....	

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BUTTER.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Curd.	Water.	Ash.	Butyro-re- fractometer at 40° C.	Fat by Differ- ence.		

Concluded.

	p. c.	p. c.	p. c.		p. c.		
Prints	13.10	2.60	43.9	84.30	66172	Genuine.
"	9.27	3.27	43.7	87.46	66173	"
.....	9.80	2.58	43.6	87.62	66174	"
.....	14.15	7.42	43.0	78.43	66175	"

F. X. W. E. BELAND, INSPECTOR.

.....	.....	14.52	3.12	43.5	82.36	56536	Genuine.
.....	.....	11.37	4.65	43.4	83.98	56537	"
.....	.....	12.15	2.96	43.0	84.89	56538	"
.....	.....	13.18	1.77	43.4	85.05	56539	"
.....	.....	11.75	5.90	44.3	82.35	56540	"
.....	.....	10.25	1.87	42.7	87.88	56541	"
.....	.....	12.45	2.36	43.5	85.19	56542	"
.....	.....	21.49	1.79	41.5	76.72	56544	Water content high; 10 low Adulterated.
.....	.....	14.00	2.04	43.0	83.96	56548	Genuine.
.....	.....	12.50	2.80	43.3	84.70	56551	"

O. BROCHU AND N. CADIEUX, TEMPORARY INSPECTORS.

.....	.....	7.64	1.03	41.6	91.33	4427	Genuine.
.....	.....	14.61	3.29	41.6	82.10	4428	"
.....	.....	11.76	3.05	42.2	86.19	386	"
.....	.....	14.85	1.64	41.8	83.61	382	"
.....	.....	14.36	5.28	42.0	80.96	394	Fat slightly below standard.
.....	.....	12.37	1.90	44.2	95.73	388	Genuine.
.....	.....	12.10	2.20	41.8	86.70	397	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1915.							
Oct. 25	Butter.....	58456	W. W. Emery, Sherbrooke..	1½ lb.	50	.....	Matthaws Blackwell Co., Ltd.
" 25	"	58457	" "	1½ "	54	.....	.....
" 25	"	58458	Edmond Lanctot, Sherbrooke.	1½ "	53	.....	.....
" 25	"	58459	Joseph Thibault, Sherbrooke	1½ "	52	.....	.....
" 25	"	58460	" "	1½ "	55	Raboin & Raboin,	.....
" 25	"	58461	L. Pinard, Sherbrooke	2 bl'ks	70	Compton, P. Q.	.....
" 25	"	58463	C. J. Lane & Sons, Lennoxville.	2 "	66	A. Bedard, Stoke Centre, P. Q.	.....
" 25	"	58464	McMurray & Hall, Lennoxville.	1½ "	64	F. R. Bartlette, Lennoxville.	.....
" 25	"	58465	George Bolduc, Lennoxville.	1½ "	48	.....	.....

DISTRICT OF OTTAWA—

Sept. 29	Butter.....	70511	J. J. Hourigan, Almonte...	1½ lbs.	50	Cobden Creamery.	.....
Oct. 1	"	70512	J. E. Cook, Winchester ...	1½ "	50	Alex. Hess, Williamsburg, Ont.	.....
" 1	" ...	70513	Chester Casselman, Chesterville.	1½ "	50	The Harris Abat-air Co., Toronto	.....
" 1	"	70514	T. McGee, Chesterville.....	1½ "	51	The Whyte Packing Co., Toronto.	.....
" 7	"	70515	Matthews-Blackwell Ltd., Ottawa.	1½ "	47	Moyneurs Ltd., Ottawa.	.....
" 7	"	70516	E. & J. Gougeon. Ottawa..	1½ "	40	Davies, Toronto..	.....
" 7	"	70517	J. Dover & Sons, Ottawa...	1½ "	51	.....	Hodgson's Bros., Montreal.
" 7	"	70518	Moyneurs Ltd., Ottawa	1½ "	50	Vendors .....	.....
" 12	"	70519	The A. E. Rea Co. Ltd., Ottawa.	1½ "	56	" .....	.....
" 12	"	70520	" "	1½ "	56	Valley Creamery of Ottawa, Ottawa.	.....
" 13	"	70524	Soublier & Tremblay, Hull..	1½ "	51	Ottawa Dairy Co., Ottawa.	.....
" 14	"	70525	M. J. Ade, Main St., Ottawa East.	1½ "	54	"
" 14	"	70597	The Ottawa Dairy Co., Ltd. Ottawa.	1½ "	53	Vendors

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BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Curd.	Water.	Ash.	Butyro-re- fractometer at 40° C.	Fat by difference.		

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.	p. c.	p. c.		p. c.		
Dairy	14.29	4.50	41.0	81.21	58456	Genuine.	
Creamery.....	13.52	3.46	42.5	83.01	58457	"	
Choice Dairy.....	14.08	1.93	42.2	83.99	58458	"	
Dairy.....	10.97	2.70	41.8	86.33	58459	"	
Creamery	13.44	2.09	42.4	84.47	58460	"	
.....	12.22	3.96	42.3	83.82	58461	"	
Dairy.....	9.98	2.46	43.4	87.56	58463	"	
.....	13.11	1.90	41.8	84.99	58464	"	
.....	14.64	2.33	41.6	83.03	58465	"	

J. A. RICKEY, INSPECTOR

Creamery.....	15.08	2.93	42.7	81.96	70511	Genuine.
Whey.....	10.73	1.50	42.3	87.77	70512	"
Creamery.....	13.08	1.33	43.2	85.59	70513	"
"	11.71	2.63	40.6	85.66	70514	"
Dairy	8.54	5.75	41.3	85.71	70515	"
"	15.46	2.98	40.3	81.56	70516	"
Creamery.....	12.80	1.91	42.4	85.29	70517	"
Creamery Chateau	12.21	2.51	42.2	85.28	70518	"
Creamery.....	11.55	2.02	42.2	86.43	70519	"
"	12.55	3.29	43.0	84.16	70520	"
"	11.89	4.50	41.0	85.61	70524	"
"	13.39	3.80	42.3	83.81	70525	"
" Ottawa Dairy	12.73	3.60	42.2	83.07	70527	"

Date of Collections.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1915.							
Oct. 27	Butter.....	70266	W. E. Hopkinson, Kingston	1 lb..	38	James Stonehouse, Port Perry Creamery.	
" 27	"	70267	Geo. Gibson, Kingston....	1 " "	32	Gold Spring Fresh Dairy.	
" 27	"	70268	L. W. Murphy, Kingston ..	1 " "	35	Meadow-Brook Creamery.	
" 27	"	70269	Wm. Davies, Kingston....	1 " "	33	Mayflower Dairy..	
" 27	"	70270	Ben Lee, Kingston.....	1 " "	38	Eastern Dairy School, Kingston	
DISTRICT OF TORONTO—							
Oct. 12	Butter.	69945	C. J. McRae, Stayner....	2 lbs.	54	M. G. Knetchel, Stayner.	
" 13	" ..	69946	Darrouch Bros., Collingwood.	1½ "	42	Mrs. Knuff	
" 13	" ..	69947	Cauthiers & Currie, Collingwood.	1½ "	45	Mrs. Wm. Neil, Nottawa.	
" 14	" ..	69948	E. Armstrong, Barrie	1 "	32	Peter Kerns, Barrie	
" 15	" ..	69949	J. M. Bothwell Estate, Allendale	2 "	60	Mrs. Gibson	
" 15	" ..	69950	H. C. Channon, Barrie....	1½ "	45	Mrs. I. H. Luke, Barrie.	
" 19	" ..	69951	M. L. Lawson, Elmvale....	2 "	54	Mr. B. French, Waveley.	
" 20	" ..	69952	D. A. Lahey & Co., Penetang.	1½ "	45	Mrs. H. Richardson, Fergusonville.	
" 20	" ..	69953	H. J. Kiettle, Midland....	1½ "	48	Mrs. John McMahon, Midland.	
" 20	" ..	69954	A. D. Parsous, Midland ..	2 "	62	Mrs. John Farquharson, Elliott-Corners.	
DISTRICT OF HAMILTON—J. J. COSTIGAN,							
Oct. 1	Butter.	58406	J. D. Harrison, City Market, Hamilton.	1½ lbs.	48	.....
" 1	" ..	58407	A. J. Lambert, City Market Hamilton.	1½ "	48	C. W. Kaufman...	
" 1	" ..	58408	" " "	1½ "	45	.....
" 1	" ..	58409	M. Freeman, City Market, Hamilton.	1½ "	48	.....
" 1	" ..	58410	" " "	1½ "	45	.....
" 1	" ..	58411	D. Green, City Market, Hamilton.	1½ "	48	R. Bond, York....	
" 1	" ..	58412	" " "	1½ "	42	.....
" 1	" ..	58413	A. Norman, City Market, Hamilton.	1½ "	52	John Scott, Exeter.	
" 2	" ..	58414	O. W. Bessey, City Market, Hamilton.	1½ "	45	R. J. McGee, Auburn.	
" 2	" ..	58415	Dundalk Produce Co., City Market, Hamilton.	1½ "	49	.....

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Curd.	Water.	Ash.	Butyro-ref. ractometer at 40° C.	Fat by differ- ence.		
JAMES HOGAN, INSPECTOR.							
	p. c.	p. c.	p. c.		p. c.		
.....		15.78	3.45	42.9	80.77	70266	Fat, slightly below standard
.....		10.67	3.71	42.3	85.62	70267	Genuine.
.....		12.25	2.97	42.6	84.78	70268	"
.....		10.47	4.98	41.3	84.55	70269	"
.....		14.46	2.95	42.8	82.59	70270	"

H. J. DAGER, INSPECTOR.

.....		10.98	4.42	42.8	84.60	69945	Genuine.
Dairy		6.88	3.27	43.1	89.85	69946	"
.....		12.45	3.71	43.3	83.84	69947	"
Choice Dairy		14.34	6.82	42.3	78.84	69948	Fat too low, due to excess of salt.
"		11.65	2.41	43.1	85.94	69949	Genuine.
Dairy		11.76	2.54	42.4	85.70	69950	"
Choice Dairy		11.03	7.85	45.0	81.12	69951	"
.....		10.46	2.34	42.6	87.20	69952	"
.....		10.44	6.15	40.6	83.41	69953	"
Dairy		8.28	3.63	43.0	88.09	69954	"

ACTING INSPECTOR.

Dairy		11.42	3.54	42.0	85.04	58406	Genuine.
Creamery		15.77	3.52	42.2	80.71	58407	"
Dairy		11.47	0.47	42.2	88.06	58408	"
Creamery		15.72	1.76	42.0	82.52	58409	"
Dairy		8.43	2.80	43.4	88.77	58410	"
Creamery		15.45	1.91	42.7	82.64	58411	"
Dairy		14.04	1.70	42.6	84.61	58412	"
Creamery		15.13	2.37	43.5	82.50	58413	"
Dairy		16.50	2.15	43.1	81.26	58414	Water slightly in excess of standard.
Creamery		15.03	1.31	43.4	83.46	58415	Genuine.

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BULLETIN No. 334—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1915.							
Oct. 13	Butter.....	54691	G. W. Sawyer, Leamington.	1½ lbs.	48	Harrow Creamery, Harrow.	.....
" 13	"	54694	Robinson Bros., Leamington	1½ "	50	Harrow Butter & Cheese Co.	.....
" 13	"	54501	C. W. Hendershot, Ltd., Kingsville.	2 "	66	Farmer's Friend Creamery, Essex.	.....
" 13	"	54502	Munroe Wigle, Kingsville..	1½ "	48	Harrow Butter & Cheese Factory, Harrow.	.....
" 13	"	54503	T. J. Salmoni, Kingsville..	1½ "	50	" " ..	.....

DISTRICT OF MANITOBA—

Oct. 15	Butter.....	61401	Roy Robertson, Melita.....	1½ lbs.	50	Melita Creamery Co., Melita.	.....
" 20	"	61402	C. H. Manishin, 519 Armetta Ave., W., Kildonan.	1½ "	55	Swifts Canadian Co., Winnipeg.	.....
" 20	"	61403	H. R. Beaven, 530 Polson Ave., Winnipeg.	1½ "	50	Shoal Lake Co., Manitoba.	.....
" 20	"	61405	Booth Bristow, 595 Bannerman Ave., Winnipeg.	1½ "	55	Brookfield Co., Winnipeg.	.....
" 21	"	61407	J. Donnelly & Son, 123 Marion St., Norwood.	2 "	75	Devon Dale Co., Winnipeg.	.....
" 21	"	61408	Collin, C. O. D. Store, 13 Provencher Ave., St. Boniface.	1½ "	55	City Dairy Co., Winnipeg.	.....
21	"	61409	Pelletier Co., 551 Tache Ave. St. Boniface	2 "	60	Thomas Gagnon..	.....
22	"	61410	R. Manson, Grand Vital P. O., St. Mary's Road.	1½ "	55	St. Boniface Creamery Co.	.....
22	"	61432	A. Irish, Grand Vital P. O.	1½ "	55	Clover Dale Creamery Co.	.....
22	"	61433	Blair & Scott, St. Vital, Tache, Ave.	1½ "	50	Dingle & Stewart, St. Vital.	.....

DISTRICT OF SASKATCHEWAN—

Oct. 12	Butter.....	65441	S. D. McMichen Co. Moose Jaw.	1½ lbs	45	W. Bennie, Moose Jaw.	.....
" 12	"	66442	The Innis Co., Moose Jaw..	1½ "	55	Saskatchewan Creamery, Moose Jaw.	.....
" 12	"	66443	Moose Jaw Trading Co., Moose Jaw.	1½ "	55	Swift Canadian Co., Moose Jaw.	.....
" 12	"	66444	Western Meat Market, Moose Jaw.	1½ "	55	Souris Valley Creamery, Estevan Saskatchewan.	.....
" 12	"	66445	G. A. Whitelock, Moose Jaw.	1½ "	50	Gorden Ironside & Fares, Moose Jaw.	.....

SESSIONAL PAPER No. 14

BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Curd.	Water.	Ash.	Butyro-re- fractometer at 40° C.	Fat by Difference.		

JOHN TALBOT, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.		
.....		11.61	2.71	43.6	85.68	54691	Genuine.
.....		16.82	2.07	43.1	81.11	54694	Water slightly excessive.
.....		12.28	2.85	43.6	84.87	54501	Genuine.
.....		19.89	3.41	42.8	76.70	54502	Water in excess and fat too low. Adulterated.
.....		20.63	2.08	43.6	77.26	54503	Water in excess and fat too low. Adulterated.

J. B. COSGROVE, TEMPORARY INSPECTOR.

.....		10.07	1.38	43.5	88.55	61401	Genuine.
.....		9.26	0.96	43.4	89.78	61402	"
.....		10.05	2.35	43.3	87.60	61403	"
.....		10.75	0.74	43.2	88.53	61405	"
.....		13.27	2.42	43.4	84.31	61407	"
.....		12.38	0.84	43.4	86.78	61408	"
.....		7.14	1.95	44.2	91.91	61409	"
.....		10.03	2.08	43.0	87.89	61410	"
.....		11.47	2.04	43.4	86.49	61432	"
.....		11.04	2.43	42.7	86.59	61433	"

L. H. HALL, INSPECTOR.

.....		8.53	7.05	42.8	84.42	66441	Genuine.
.....		13.43	0.60	42.6	85.97	66442	"
Brookfield		13.33	1.16	42.6	85.51	66443	"
.....		12.05	1.26	42.6	86.60	66444	"
Cloverdale		12.34	0.80	42.7	86.84	66445	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—

1915.							
Nov. 16	Butter.....	52281	Spencer Todd, Ltd., Medicine Hat.	2 lbs.	80	Carlyle's Fancy Creamery, Medicine Hat.	
" 17	"	52282	E. S. Bowden, Taber	2 "	80	R. Bowden, Purple Springs.	
" 17	"	52283	The Good Co., Lethbridge..	2 "	80	Magrath Creamery Assn., Magrath.	
" 24	"	52284	Geo. D. Wood, Calgary....	2 "	80	Carlyle Dairy Co., Calgary.	
" 24	"	52285	The John Irwin Co., Calgary	2 "	70	P. Pallisen, Calgary.	

DISTRICT OF ROCKY MOUNTAINS—

Nov. 16	Butter.....	61896	J. A. Menzies Ltd., Merritt.	1½ lbs.	70	J. Beckman, Lower Nicola.	
" 16	"	68101	Merritt Mercantile Co., Merritt.	1½ "	60	F. R. Stewart & Co., Vancouver.	
" 16	"	68102	Merritt and Dist. Ind. Co. of Soc., Merritt.	2 "	90		
Dec. 6	"	68107	N. L. McInnes Co., Grand Forks.	2 "	90	Grand Forks Creamery.	
" 6	"	68108	" " "	2 "	75	Lindsay Creamery Co., Lindsay.	

DISTRICT OF VANCOUVER—

Nov. 4	Butter. ...	55406	David Spencer, Ltd., Vancouver.	1½ "	51	A. P. Slade & Co., Vancouver.	
" 4	"	55407	Vancouver-Prince Rupert Meat Co., 152 Hastings St. W., Vancouver.	1½ "	50	Swift Can., Ltd., Vancouver.	
" 4	"	55408	Woodward Dept'l Stores, Vancouver.	1½ "	53	" " "	
" 4	"	55409	Powell's Market, 54 Hastings St. E., Vancouver.	1½ "	50	F. R. Stewart & Co., Vancouver.	
" 11	"	55410	W. H. Walsh, Davie and Seymour Sts., Vancouver.	1½ "	55	" " "	
" 11	"	55411	Jones' Egg, Butter and Prov. Store, 1186 Granville St., Vancouver.	1½ "	60	Parsons Haddock Co., Ltd., Vancouver.	
" 11	"	55412	Clover Leaf Butter Store, Granville Nelson and Sts., Vancouver.	1½ "	55	F. R. Stewart & Co., Vancouver.	
" 12	"	55413	Larsen and Anne, 601 Front St., New Westminster	2 "	70	" " "	
" 12	"	55414	Fraser River Supply Co., 548 Columbia St., New Westminster.	2 "	60	A. P. Slade & Co., Vancouver.	
" 12	"	55415	C. A. Walsh, Ltd., 681 Columbia St., New Westminster.	2 "	70	F. R. Stewart & Co., Vancouver.	

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BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks, and opinion of the Chief Analyst.
	Cond.	Water.	Ash.	Butyro- ref- ractometer at 40° C.	Fat by differ- ence.		

A. W. R. MARKLEY, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.		
Dairy	0.96	13.78	2.95	42.9	82.31	52281	Genuine.
"	1.02	9.86	2.65	42.6	86.47	52282	"
Creamery.....	0.86	13.34	2.12	42.4	83.68	52283	"
Scotia Thistle Brand Fancy Creamery Butter	0.86	16.26	3.00	42.8	79.88	52284	Water slightly in excess, and fat low.
Pure Creamery.....	0.76	21.56	2.70	42.5	74.98	52285	Water in excess, and fat low. Adulterated.

THOS. PARKER, INSPECTOR.

.....	1.06	14.64	2.31	42.3	81.99	61896	Genuine.
Merco	0.70	16.20	3.08	42.8	80.02	68101	Water slightly in excess.
Ayresshire Rose ..	0.72	15.62	2.18	43.3	81.48	68102	Genuine.
Maple Leaf.....	1.02	12.50	2.25	43.0	84.23	68107	"
Victoria Creamery ..	0.64	15.08	2.19	44.8	82.09	68108	"

E. J. MORGAN, INSPECTOR.

.....	1.00	14.92	1.47	42.8	82.61	55406	Genuine.
.....	0.88	15.52	2.30	43.0	81.30	55407	"
.....	0.74	15.52	2.49	43.2	81.25	55408	"
.....	0.68	14.92	1.61	42.9	82.79	55409	"
.....	1.16	15.44	3.21	43.2	80.19	55410	Fat slightly below standard.
.....	0.92	15.12	1.45	42.5	82.81	55411	Genuine.
.....	0.74	16.72	1.89	43.1	80.01	55412	Water in slight excess of standard.
.....	0.64	15.84	2.93	43.0	80.50	55413	Fat slightly below standard.
.....	0.98	11.84	2.45	42.1	84.76	55414	Genuine.
.....	0.70	14.04	2.38	43.4	82.08	55415	"

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BULLETIN No. 334—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1915,							
Nov. 10	Butter.....	66616	Windsor Grocery Co., 817 Govt. St., Victoria.	1½ lb.	55	.....	B. Wilson Co., Ltd., Victoria.
" 10	"	66622	The West End Grocery Co., 1002 Govt. St., Victoria.	1½ "	67½	The Comox Creamery Assn., Courtney, B.C.	.....
" 10	"	66623	" " ..	1½ "	67½	Salt Spring Island Creamery Assn., Ganges, B.C.	.....
" 11	"	66624	Dixie H. Ross & Co., 1317 Govt. St., Victoria.	1½ "	70	Cowichan Creamery Assn., Duncan, B.C.	.....
" 11	"	66625	" " ..	1½ "	70	Salt Spring Island Creamery Assn., Ganges, B.C.	.....
" 12	"	66629	Acton Bros., 1317 Douglas St., Victoria.	1½ "	60	Salmon Arm Creamery, Salmon Arm.	.....
" 12	"	66633	H. O. Kirkham & Co., Ltd., 1109 Govt. St., Victoria.	1½ "	56	.....	B. Wilson Co., Ltd., Victoria.
" 15	"	66640	Henry W. Driver 856 Yates St., Victoria.	1½ "	55	Swift Can. Co., Ltd., Victoria.	.....
" 23	"	66641	Wellburn's Cash Grocery, 1058 Pandora Ave., Victoria.	1½ "	60	.....	B. Wilson Co., Ltd., Victoria.
" 23	"	66642	E. B. Jones, 1800 Cook St., Victoria.	1½ "	70	Cowichan Creamery Assn., Duncan, B.C.

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BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Curd.	Water.	Ash.	Butyro- refractometer at 40° C.	Fat by Difference.		

D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.		p. c.		
Clover Leaf Creamery.	0.72	16.12	2.64	42.3	80.52	66616	Water slightly excessive and fat correspondingly low.
.....	1.16	12.40	2.32	43.1	84.12	66622	Genuine.
.....	1.06	13.48	2.41	42.1	83.05	66623	"
.....	1.08	12.92	1.46	42.5	84.54	66624	"
.....	1.14	14.20	1.93	42.6	82.73	66625	"
Fresh Creamery Butter.	0.98	13.52	1.66	43.2	83.84	66629	"
.....	0.80	15.78	2.50	42.4	80.92	66633	"
.....	0.88	12.76	1.51	43.5	84.85	66640	"
Special Creamery . .	1.02	14.28	1.54	43.6	83.16	66641	"
.....	1.00	12.36	1.98	42.6	84.66	66642	"

APPENDIX Z.

BULLETIN No. 335—CREAM OF TARTAR.

OTTAWA, April 11, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—I beg to hand you a report dealing with the results of analysis of 180 samples purchased as Cream of Tartar in October to December of last year.

Cream of Tartar was last inspected in February and March, 1913 (see Bulletin 263). Since that date commercial conditions have seriously changed as regards this article and prices have greatly increased. In consequence of this fact, various substitutes for Cream of Tartar are offered; and of this class of goods some thirty seven (37) samples have been more or less fully, analysed. They are found to consist chiefly of acid phosphate of lime, and for the most part contain alum, (soda-alum) as well. The acidity is reduced to that of Cream of Tartar by addition of starch. No particular objection to these articles can be urged, except that the price at which they are sold is exorbitant, usually from 30 to 40 cents per pound. This is the price at which it has been customary to sell cream of tartar; and the fact that some of these substitutes contain small percentages of Cream of Tartar or tartaric acid, and that others are offered under names which more or less distantly resemble Cream of Tartar, suggests a willingness to accept the price of Cream of Tartar for an article which should be sold at a lower price. It may be found desirable more fully to investigate the substitutes for Cream of Tartar now so much in evidence.

So far as the present inspection of Cream of Tartar is concerned, the results are as below:—

Samples found genuine and of B. P. standard.	62
“ “ but of commercial grade.	100
“ judged doubtful.	2
“ sold as compound.	2
“ found adulterated under the Act.	14
Total.	180

The standard of the British Pharmacopœia requires 97.5 per cent. true bi-tartrate of potash.

The so-called commercial grade proposed by myself in 1910 (See Bull. 222) contains at least 90 per cent. of bi-tartrate of potash.

Two samples contain foreign matter in so small quantity as to suggest accident. These I have marked doubtful.

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Fourteen samples sold as Cream of Tartar, are mixtures which should be sold as substitutes for this article. These must be judged as adulterated under the Act.

I beg to recommend publication of this report as Bulletin No. 335.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

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BULLETIN No. 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Oct. 18	Cream of Tartar.	64266	Wm. Moore, Halifax.....	$\frac{3}{4}$ lb..	39	Herron Leblanc, Montreal.	Mfrs.
" 19	"	64267	John P. Mott & Co., Halifax.	$\frac{3}{4}$ "	40	Vendor . . . . .	.....
" 20	"	64268	Wentzells, Ltd., Halifax .	$\frac{3}{4}$ "	45	John P. Mott & Co., Halifax.	Mfrs.
" 20	"	64269	Jas. Scott & Co., Halifax.	$\frac{3}{4}$ "	40	W. H. Schwartz & Son, Halifax.	"
" 27	"	64270	Corkum & Ritcey, Ltd., Halifax.	$\frac{3}{4}$ "	45	.....	" .....
" 27	"	64271	R. B. Seeton & Co., Halifax.	$\frac{3}{4}$ "	45	E. W. Gillett & Co., Ltd., Toronto.	"
" 27	"	64272	National Drug Co., Halifax.	$\frac{3}{4}$ "	42	Vendors.....	.....
" 28	"	64273	W. H. Schwartz & Sons, Halifax.	$\frac{3}{4}$ "	37	" .....	.....
Dec. 7	"	64274	Wentworth Stores, Windsor.	$\frac{3}{4}$ "	50	McCready & Sons, St. John, N.B.	Mfrs.
" 7	"	64275	Cross & DeWolfe, Kentville.	$\frac{3}{4}$ "	45	G. E. Barbour Co., St. John, N.B.	"

DISTRICT OF PRINCE EDWARD ISLAND—

" 6	Cream of Tartar.	60383	W. A. Poole & Co., Lower Montague.	1 lb..	50	G. E. Barbour Co., Co., St. John.	.....
" 6	"	60384	McDonald Bros., Georgetown.	1 "	60	.....	Carvell Bros., Charlottetown
" 11	"	60385	P. J. Berrigan, Dunedin, Lot 31.	1 "	45	John P. Mott & Co., Halifax.	.....
" 12	"	60386	Beer & Goff, Charlottetown.	1 "	60	W. H. Schwartz, Halifax.	.....
" 12	"	60387	Coffin & Co., Charlottetown.	1 "	60	McCready & Son, St. John.	.....
" 12	"	60388	W. W. Walker, Charlottetown.	1 "	60	.....	J. A. Farquharson & Co., Charlottetown
" 12	"	60389	Jenkins & Son, Charlottetown.	1 "	45	E. W. Gillett Co., Ltd., Toronto.	.....
" 12	"	60390	J. C. Crabbe, Charlottetown.	1 "	60	McCready & Son, St. John.	.....
" 12	"	60391	J. G. Passmore, Charlottetown.	1 "	60	J. A. Farquharson & Co., Charlottetown
" 12	"	60392	P. A. Smith, Charlottetown.	1 "	55	E. W. Gillett Co., Toronto.

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CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. in per 100 grams.	Bitartrate of pot-ash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.	Alumina (Al ₂ O ₃).		

R. J. WAUGH, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	503	.....	7.70	4.46	7.95	.....	.....	64266	Adulterated.
.....	531	99.8	.....	.....	.....	.....	.....	64267	Genuine. Meets B. P. require-
.....	530	99.7	.....	.....	.....	.....	.....	64268	ments. " " "
.....	481	90.5	Pre-	.....	.....	.....	.....	64269	" Commercial Grade.
.....	462	.....	sent.	.....	.....	.....	.....	64270	Adulterated.
.....	531	99.8	.....	.....	.....	.....	.....	64271	Genuine. Meets B. P. require-
.....	479	90.2	Pre-	.....	.....	.....	.....	64272	ments. Genuine. Commercial Grade.
.....	480	90.4	sent.	.....	.....	.....	.....	64273	" " "
.....	498	93.5	"	.....	.....	.....	.....	64274	" " "
.....	479	90.2	"	.....	.....	.....	.....	64275	" " "

WM. A. WEEKS, INSPECTOR.

.....	495	93.2	Pre-	.....	.....	.....	.....	60383	Genuine. Commercial Grade.
.....	495	93.2	"	.....	.....	.....	.....	60384	" " "
.....	479	90.2	"	.....	.....	.....	.....	60385	" " "
.....	484	91.0	"	.....	Trace	.....	.....	60386	" " "
.....	497	93.5	"	.....	.....	.....	.....	60387	" " "
.....	482	90.7	"	.....	.....	.....	.....	60388	" " "
.....	531	99.8	"	.....	.....	.....	.....	60389	Genuine. Meets B. P. require-
.....	504	94.9	Pre-	Trace	60390	ments. Genuine. Commercial Grade.
.....	484	91.0	sent.	60391	" " "
.....	502	94.5	"	60392	" " "

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BULLETIN No 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1915.							
Jan.	19	Cream of Tartar.	59646 Baird & Peters, St. John, N.B.	1 lb	40	Vendors.....	
"	19	"	59647 Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ "	30	"	
"	19	"	59648 Jones & Schofield, St. John, N.B.	$\frac{3}{4}$ "	30	"	
"	19	"	59649 G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ "	30	"	
"	20	"	59650 2 Barkers, Ltd., St. John, N.B.	1 lb.	45	C. H. Cochrane & Co., Ottawa, Ont.	
"	20	"	59651 Dearborn & Co., St. John, N.B.	1 "	45	Vendors.....	
"	21	"	59652 Northrup & Co., St. John, N.B.	1 "	38	.....	C. H. Cochrane & Co., Ottawa, Ont.
"	21	"	59653 T. C. Collins & Co., St. John, N.B.	1 "	50	Vendors.....	
"	22	"	59654 McPherson Bros., St. John, N.B.	1 "	60	.....	G. E. Barbour & Co., St. John, N.B.
"	22	"	59655 M. E. Grass, St. John, N.B.	1 "	50	.....	G. Bent & Sons, St. John.

DISTRICT OF NEW BRUNSWICK—

Oct.	5	Cream of Tartar.	66176 2 Barkers, Ltd., St. John.	1 lb.	55	Vendors.....	
"	5	"	66177 H. W. Cole, St. John...	3 pkg.	45	"	
"	6	"	66178 Dearborn & Co., St. John..	1 lb.	50	"	
"	7	"	66179 Baird & Peters, St. John..	1 "	55	"	
"	12	"	66180 Puddington, Wetmore & Morrison, St. John.	3 pkg.	38	"	
"	13	"	66181 G. E. Barbour Co., Ltd., St. John.	1 lb.	50	"	
"	20	"	66183 W. H. Fleming, Woodstock.	1 "	60	G. E. Barbour, Ltd., St. John.	
"	26	"	66184 W. B. McKay, Co., Sussex.	1 "	60	H. W. Cole, St. John	
"	26	"	66185 Sussex Mercantile Co., Sussex.	1 "	50	" " ..	
"	27	"	66195 Reed Co., Ltd., Moncton.	3 pkg.	45	J. P. Mott & Co. Halifax.	

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. to per 100 grams.	Bitartrate of potash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.	Alumina (Al ₂ O ₃).		

J. C. FERGUSON, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	491	92.4	Pre-sent.	.....	.....	.....	.....	59646	Genuine. Commercial Grade.
.....	493	92.8	"	.....	.....	.....	.....	59647	" " "
" Holly " Brand.	493	92.8	"	.....	.....	.....	.....	59648	" " "
" Acorn "	516	97.1	Trace.	.....	.....	.....	.....	59649	Genuine. Meets B. P. require-
.....	526	99.0	.....	.....	.....	.....	.....	59650	" " "
.....	530	99.7	.....	.....	.....	.....	.....	59651	" " "
.....	527	99.2	.....	.....	.....	.....	.....	59652	" " "
.....	504	94.9	Pre-sent.	.....	.....	.....	.....	59653	Genuine. Commercial Grade.
.....	500	94.1	"	.....	.....	.....	.....	59654	" " "
.....	486	91.5	"	.....	.....	.....	.....	59655	" " "

JOHN C. FERGUSON, INSPECTOR.

.....	486	91.5	Pre-sent.	.....	.....	.....	.....	66176	Genuine. Commercial Grade.
.....	497	93.0	"	.....	.....	.....	.....	66177	" " "
National Brand	529	99.6	.....	.....	.....	.....	.....	66178	" Meets B. P. require-
.....	484	91.0	Pre-sent.	.....	.....	.....	.....	66179	" Commercial Grade.
.....	530	99.7	.....	.....	.....	.....	.....	66180	" Meets B. P. require-
.....	530	99.7	.....	.....	.....	.....	.....	66181	" " "
.....	482	90.7	Pre-sent.	.....	.....	.....	.....	66182	" Commercial Grade.
.....	496	93.3	.....	.....	.....	.....	.....	66183	" " "
.....	493	92.9	"	.....	.....	.....	.....	66184	" " "
.....	487	91.6	"	.....	.....	.....	.....	66185	" " "

7 GEORGE V, A. 1917

BULLETIN No. 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	urnisher.

DISTRICT OF QUEBEC CITY—

1915.							
Oct.	6	Creme de tarte.	56542 J. Pepin, 132 Rue Mas-	1 lb.	60	Unknown.....	Turcotte Frere..
"	7	"	56545 A. Larue, 35 Rue Vic-	1 "	60	"	"
"	4	"	56546 A. Drolet, 714 Rue St.	1 "	75	Nat. Drug. Co.....	Mfrs.....
"	4	"	56547 N. Tremblay, 8 Rue St.	1 "	80	Unknown.....	"
"	6	"	56548 Jos. Vezina, Enr., 914	1 "	50	"	"
"	7	"	56550 Rue St. Valier, Quebec.	1 "	60	Langlais.....	E. Paradis.....
"	7	"	56552 E. Bascon, 28 Rue St.	3 pkg.	30	Unknown.....	J. B. Renand...
"	7	"	56553 J. N. Rousseau, 185 Rue	1 lb	40	Turcotte Frere.....	Mfrs.....
"	8	"	56554 G. A. Gagnon, 52 Rue	1 "	50	Unknown.....	"
"	8	"	56555 Abel Turcotte, 272 Rue	1 "	80	"	J. B. Renaud...
"	8	"	56555 L. Tardif, 175 Rue St.				
"	8	"	56555 Jean, Quebec.				

DISTRICT OF QUEBEC PROVINCE—

Oct.	13	Creme tarte.	4425 Joe Brown, St. Claire	1½ lbs.	1.05	J. B. Renaud & Fils	.....
"	14	"	4428 Cleophas Beaudoin, Ar-	1½ "	90	Quebec Preserving	.....
"	1	Creme de tarte.	331 J. N. Desjardins, St. Jer-	1 "	80	Co., Quebec.	.....
"	1	"	333 Chas. Elic Laflamme, Ste.	1 "	80	Hudon Hebert, Mon-	.....
"	1	"	335 Jerome.	1 "	60	Treuil.	.....
"	2	"	338 T. Lapointe, Ste. Jerome..	1 "	50	E. W. Gillett & Co.,	.....
"	2	"	339 Danien Hetu, St. Agathe,	1 "	40	Toronto.	.....
"	2	"	339 de Monte.				
"	2	"	339 Hormidas Giroux, St.				
"	2	"	339 Agathe des Montes.				

DISTRICT OF EASTERN TOWNSHIPS—

Oct.	21	Cream of Tartar	58446 W. Jutras, St. Hyacinthe.	1 lb..	50	.....	.....
"	21	"	58447 Lassonde & Frere, St. Hy-	1 "	80	.....	.....
"	26	"	58448 acinthe.	1 "	60	.....	.....
"	26	"	58449 Gerin & Boulay, Coaticook	3 pkg.	45	Pure Gold Mfg. Co..	.....
"	26	"	58450 Woodman & McKee, Coat-	1 lb..	60	.....	.....
"	26	"	58450 icook.				
"	26	"	58450 B. J. Smith & Son, Coati-				
"	26	"	58450 cook.				

SESSIONAL PAPER No. 14

CREAM OF TAKTAR.

Inspector's Reports. (Is not an expression of opinion.)	Results of Analysis							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. ̄n per 100 grains.	Bitartrate of pot-ash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.	Alumina. (Al ₂ O ₃)		

F. X. W. E. BELAND, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	468	88.1	Pre-sent. 11.10	..	Trace.	.....	.....	56542	Genuine. Commercial Grade.
.....	481	.....	15.70	8.48	9.63	3.90	0.20	56545	Adulterated.
.....	495	93.2	Pre-sent. 15.70	.....	.....	.....	.....	56546	Genuine. Commercial Grade.
.....	518	.....	15.70	18.93	10.31	12.55	0.50	56547	Adulterated.
.....	313	.....	20.00	.....	36.56	.....	1.70	56548	"
.....	496	93.3	Pre-sent.	.....	.....	.....	.....	56550	Genuine. Commercial Grade.
.....	490	92.3	"	.....	.....	.....	.....	56552	"
.....	492	92.7	"	.....	.....	.....	.....	56553	"
.....	493	92.9	"	.....	.....	.....	.....	56554	"
.....	496	93.3	"	.....	.....	.....	.....	56555	"

O. BROCHU AND D. CADIEUX, TEMPORARY INSPECTORS

.....	488	91.7	.....	.....	Trace	1.30	.....	4425	Genuine. Commercial grade. Starch probably accidental.
.....	495	93.2	.....	.....	.....	.....	.....	4428	Genuine. Commercial grade.
.....	501	94.3	.....	.....	.....	.....	.....	331	"
.....	531	99.9	.....	.....	.....	.....	.....	333	Genuine. Meets R. P. require- ments.
.....	514	.....	12.80	8.34	9.10	4.52	0.50	335	Adulterated.
.....	478	90.0	.....	.....	.....	.....	.....	338	Genuine. Commercial grade.
.....	.....	.....	27.88	35.60	14.10	5.46	1.13	339	Adulterated.

J. J. COSTIGAN, ACTING INSPECTOR.

.....	.....	.....	26.78	22.57	23.08	5.35	0.28	58446	Adulterated.
.....	499	93.8	.....	.....	.....	.....	.....	58447	Genuine. Commercial grade.
.....	491	92.4	.....	.....	.....	.....	.....	58448	"
.....	528	99.3	.....	.....	.....	.....	.....	58449	Genuine. Meets R. P. require- ments.
.....	510	.....	14.70	11.49	10.90	2.50	1.00	58450	Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1915.							
Oct. 29	Cream of Tartar.	58451	Davian & Larose, Granby.	1 lb.	70		
" 29	"	58452	H. Cyr, Granby.	1 "	60		
" 29	"	58453	L. M. Marcaurale, Granby	1 "	60		
" 29	"	58454	Mercure & Frere, Granby.	1 "	50		
" 29	"	58455	A. Z. Cote, Granby.	1 "	60		Hudon & Orsali.

DISTRICT OF QUEBEC PROVINCE—

Dec. 23	Creme de tarte.	3663	J. E. Gagne, St. Maxime.	3	45	Dr. Ed. Morin, Quebec.	
1916.							
Jan. 16	Creme de tarte.	3670	G. E. Dussault, St. Marguerite.	1 ...	60	N. Turcotte, Quebec.	
" 12	"	3673	G. A. Cloutier, St. Odilon	3	30		

DISTRICT OF MONTREAL—

1915.							
Nov. 25	Cream of Tartar.	67291	D. Maloney, 80 Sherbrooke St. W., Montreal.	3 tins.	60	Herron, LeBlanc, Ltd.	
" 25	"	67292	L. S. Guay, 236 Sherbrooke St. W., Montreal.	6 pkg.	60		L. Chaput, Fils & Co.
" 25	"	67293	Westmount Grocery Co., 4783 Sherbrooke St., Westmount.	3 tins.	60	S. H. Ewing & Son.	
" 25	"	67294	R. Grier, 1161 St. Antoine St., Montreal.	12 ozs.	45		Howe, McIntyre.
" 25	"	67295	D. Lachaine, 256 St. Margaret St. Montreal.	1 lb.	40		Nap. Longpre...
" 25	"	67296	N. Viau, 1116 St. Antoine St., Montreal.	3 tins.	30	McLaren's, Ltd.	
" 25	"	67297	J. A. Groulx, 1073 St. Antoine St., Montreal.	1 lb.	75		Hudon, Hebert & Co.
" 25	"	67298	J. Bouthillier, 1018 Antoine St., Montreal.	12 ozs.	45		Laporte, Martin & Co.
" 25	"	67299	E. Leroux, 1920 St. James St., Montreal.	10 "	35		Hudon & Orsali.
" 26	"	67300	W. J. Roberts, 949 Wellington St., Verdun.	3 pkg.	45		Wm. Galbraith & Son.

7 GEORGE V, A. 1917

BULLETIN No. 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1915.							
Sept. 29	Cream of Tartar.	70501	Taber & Gemmill, Almonte.	1 lb.	60	Pure Gold Co., Toronto.	.....
" 29	"	70502	Fred W. Robertson, Almonte.	1 " "	60	" " "	.....
Oct. 1	"	70503	A. Sweet & Co., Winchester.	1 " "	50	.....	T. W. Chamberlain & Co. Prescott.
" 1	"	70504	Hugh Fraser and Son, Winchester.	1 " "	60	Gillett's, Toronto.	.....
" 1	"	70505	Fulton Bros., Chesterville.	1 " "	60	.....	Hudon, Hebert & Cie, Montreal.
" 2	"	70506	Fred. A. Davis, Quyon.	1 " "	80	Unknown	Unknown.
" 9	"	70507	H. H. Layng, Smith's Falls.	1 " "	60	.....	Robertson, Nicolle, Smith's Falls.
" 9	"	70508	J. T. Conway, Perth	1 " "	60	Unknown	Unknown.
" 16	"	70509	John Hughes, Prescott	1 " "	80	.....	J. M. Lowes, Toronto.
" 16	"	70510	Doyle Bros., Prescott.	3 pkg.	45	S. H. Ewing & Son, Montreal.	.....

DISTRICT OF KINGSTON—

Oct. 27	Cream of Tartar.	70271	W. E. Hopkinson, Kingston.	1 lb.	80	E. W. Gillett, Toronto.	.....
" 27	"	70272	Ben Lee, Kingston	1 " "	60	.....	Geo. Robertson Co., Ltd., Kingston.
" 28	"	70273	A. S. Kimmerly, Napanee.	1 " "	80	Unknown	.....
" 28	"	70274	The Fair, Napanee	1 " "	60	.....	F. Newnen, Picton.
" 28	"	70275	J. H. Fish, Napanee	1 " "	40	J. M. Lowes Co., Toronto.	.....
" 28	"	70276	H. W. Kelly, Napanee	1 " "	55	Todhunter & Mitchell Toronto.	.....
" 28	"	70277	F. H. Perry, Napanee	3pkgs.	60	Matthewson Sons, Montreal.	.....
" 28	"	70278	J. G. Oliver, Napanee	1 lb.	50	Ewing Co., Montreal	.....
" 28	"	70279	Serimshaw & Mills, Napanee.	1 " "	60	McLaren's, Ltd., Hamilton.	.....
" 28	"	70280	G. P. Sproule & Co, Napanee.	1 " "	60	Unknown	.....

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity CC n per 100 grams.	Bitartrate of potash expressed as weight.	Lime (Ca O.)	Phosphates.	Sulphates.	Starch.		
						Alumina (Al ₂ O ₃)		

J. A. RICKEY, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	488	91.8	...	...	...	...	...	70501	Genuine. Commercial grade.
.....	490	92.2	...	...	...	...	...	70502	" "
.....	528	99.3	...	...	...	...	...	70503	" Meets B. P. requirements.
.....	523	98.3	...	...	...	...	...	70504	" "
.....	458	86.2	3.85	...	2.88	...	...	70505	Doubtful.
.....	523	98.4	...	...	...	...	...	70506	Genuine. Meets B. P. requirements.
.....	496	...	1.70	0.31	0.33	None.	0.21	70507	Doubtful.
.....	524	98.6	...	...	...	...	...	70508	Genuine. Meets B. P. requirements.
.....	489	91.9	...	...	...	...	...	70509	Genuine. Commercial grade.
.....	531	99.9	...	...	...	...	...	70510	" Meets B. P. requirements.

JAMES HOGAN, INSPECTOR.

.....	532	100.0	...	...	...	...	...	70271	Genuine. Meets B. P. requirements.
.....	527	99.2	...	...	...	...	...	70272	" "
.....	506	95.2	...	...	...	...	...	70273	Genuine. Commercial grade.
.....	492	92.5	...	...	...	...	...	70274	" "
Sold as compound.	.....	25.15	23.59	22.63	9.83	0.31	...	70275	Sold as compound.
.....	493	92.8	...	...	...	...	...	70276	Genuine. Commercial grade.
.....	527	99.2	...	...	...	...	...	70277	Genuine. Meets B. P. requirements.
.....	495	93.2	...	...	...	...	...	70278	Genuine. Commercial grade.
.....	488	91.8	...	...	...	...	...	70279	" "
.....	481	90.4	...	...	...	...	...	70280	" "

7 GEORGE V, A. 1917

BULLETIN No. 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1915.							
Oct. 12	Cream of Tartar.	69935	Bell's Grocery, Stayner...	1 lb..	60	.....	Dalton Bros., Toronto.
" 13	"	69936	Prentice & Sproule, Collingwood.	1 "	50	.....	McLaren's, Ltd., Hamilton.
" 13	"	69937	T. N. Brown, Collingwood.	1 "	65	.....	Unknown
" 14	"	69938	H. J. Buchanan, Barrie..	1 "	75	.....	Eby Blain, Ltd., Toronto.
" 14	"	69939	Jas. Cheeseman, Barrie..	1 "	60	.....	Perkins Ince Co., Toronto.
" 15	"	69940	Wisdom & Co., Allendale.	1 "	50	.....	Unknown
" 19	"	69941	James Drysdale, Elmsdale.	1 "	60	E. W. Gillett & Co., Toronto.	.....
" 20	"	69942	W. M. Thompson, Penetang.	1 "	80	" "	.....
" 20	"	69943	A. D. G. Hager, Midland.	1 "	60	.....	Unknown
" 20	"	69944	The Clayfair Preston Co., Ltd., Midland.	1 "	60	McLaren's, Ltd., Hamilton.	.....

DISTRICT OF HAMILTON—

Sept. 30	Cream of Tartar..	58426	P. F. Gage, 331 King St., E. Hamilton.	1 lb..	50	McLaren's Ltd.....	.....
" 30	"	58427	Wm. Carroll, 94 John St., S. Hamilton.	6 pkgs	42	.....	.....
" 30	"	58428	A. R. McLachlin, 72 King St., W. Hamilton.	6 "	30	Young-Winfield, Ltd	.....
Oct. 1	"	58429	S. G. Lyne, Barton St., Hamilton.	1 lb..	60	.....	.....
" 1	"	58430	L. J. Hill, 367 Barton St., Hamilton.	1 "	50	.....	.....
" 4	"	58431	Herbert J. Wells, 50 King St., St. Catharines.	1 "	60	.....	.....
" 4	"	58432	Lawrence & Co., 204 St. Paul St., St. Catharines.	1 "	60	.....	Todhunter & Mitchell, Toronto.
" 4	"	58433	Roddy & Walker, 135 Queenston St., St. Catharines.	1 "	60	.....	Gorman-Ecker Co., Toronto.
" 4	"	58434	Henry Glachin, Church St., St. Catharines.	1 "	55	McLaren's Ltd .....	.....
" 4	"	58435	Arthur Harp, 66 Colborne St., Brantford.	1 "	75	Brantford Coffee & Spice Co.	.....

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. in per 100 grams.	Bicarbonate of potash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.		
						Alumina (A ₂ O ₃).		

H. J. DAGER, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
.....	485	91.2	.....	.....	.....	.....	.....	69935	Genuine. Commercial grade.
.....	490	92.1	.....	.....	.....	.....	.....	69936	"
.....	487	91.6	.....	.....	.....	.....	.....	69937	"
.....	492	92.5	.....	.....	.....	.....	.....	69938	"
.....	521	98.0	.....	.....	.....	.....	.....	69939	Genuine. Meets B. P. requirements.
.....	.....	29.95	17.85	32.47	1.10	0.16	.....	69940	Adulterated.
.....	489	92.0	.....	.....	.....	.....	.....	69941	Genuine. Commercial grade.
.....	531	99.9	.....	.....	.....	.....	.....	69942	Genuine. Meets B. P. requirements.
.....	488	91.8	.....	.....	.....	.....	.....	69943	Genuine. Commercial grade.
.....	503	94.7	.....	.....	.....	.....	.....	69944	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	492	92.5	.....	.....	.....	.....	.....	58426	Genuine. Commercial grade.
Alliance Brand	497	93.4	Trace	Trace	0.45	.....	.....	58427	Genuine. Commercial grade. Starch probably accidental.
.....	531	99.9	.....	.....	.....	.....	.....	58428	Genuine. Meets B. P. requirements.
.....	500	3.80	3.09	.....	3.83	.....	.....	58429	Adulterated.
.....	492	92.6	.....	.....	.....	.....	.....	58430	Genuine. Commercial grade.
.....	494	92.9	.....	.....	.....	.....	.....	58431	"
.....	524	98.5	.....	.....	.....	.....	.....	58432	Genuine. Meets B. P. requirements.
.....	477	89.7	Trace	.....	.....	.....	.....	58433	Genuine. Commercial grade.
.....	471	88.6	.....	.....	.....	.....	.....	58434	"
.....	469	88.3	.....	.....	.....	.....	.....	58435	"

7 GEORGE V, A. 1917

BULLETIN No. 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1915.							
Oct. 12	Cream of Tartar.	54680	A. M. Milton, Ridgetown.	1 lb..	1.00	.....	National Drug Co., London.
" 12	"	54682	W. & E. Atworth & Son, Ridgetown.	3 pkgs	30	Gorman Eckert & Co., London.	.....
" 12	"	54684	Orendorf Bros., Ridgetown.	1 lb..	75	Unknown.....	.....
" 12	"	54686	Clark & Sons, Ridgetown.	1 "	85	Gorman-Eckert Co., London.	.....
" 12	"	54687	P. Bawden, Ridgetown...	1 "	75	Gillett Co., Toronto.	.....
" 13	"	54689	C. S. Thornton, Leamington.	1 "	60	Gorman-Eckert Co., London.	.....
" 13	"	54690	W. W. Ames, Leamington.	1 "	80	Unknown.....	.....
" 13	"	54693	Robinson Bros., Leamington.	1 "	75	Todhunter & Mitchell, Toronto.	.....
" 14	"	54506	Theodore B. S. Tweedale, Essex.	1 "	50	Unknown.....	.....
" 14	"	54507	S. H. Sadler, Essex.....	1 "	60	"	.....
DISTRICT OF MANITOBA—							
Oct. 11	Cream of Tartar	61426	Thomas Lawrence, Lyleton.	1½ lb.	1.05	E. W. Gillett, Toronto.	.....
" 11	"	61427	R. A. Laing, " "	1 "	55	Gold Standard Co., Winnipeg.	.....
" 13	"	61428	De'Long & May, Reston.	1 "	90	Novary Products Co., Toronto.	.....
" 13	"	61429	G. S. Munroe Co., Ltd. Reston.	1 "	90	McLaren's Ltd., Winnipeg.	.....
" 15	"	61430	W. J. Bower, Melita.....	1 "	1.05	E. W. Gillett, Co., Toronto.	.....
" 28	"	61434	J. A. Harvie & Co., Treasherne.	3 cans	1.05	Gold Standard Co., Winnipeg.	.....
" 28	"	61435	P. R. McLachlin, Rathwell.	3 "	1.05	Campbell Bros. & Wilson, Winnipeg.	.....
Nov. 1	"	61436	Erickson Bros., Selkirk...	3 pkgs	45	Todhunter, Mitchell Co. Toronto.	.....
" 2	"	61437	A. Thornton, 1583 Main St., Kildonan.	3 "	45	Gorman Eckert Co., Winnipeg.	.....
" 2	"	61438	Kildonan Cash Supply Co., 1741 Main St., Kildonan	3 "	45	Blue Ribbon Co., Toronto.	.....
DISTRICT OF SASKATCHEWAN—							
Oct. 13	Cream of Tartar.	66446	McLean Grocery, Moosejaw.	1 lb.	60	White Star Mfg. Co., Winnipeg.	.....
" 13	"	66447	E. E. Ard, Moosejaw....	1 "	60	Gold Standard Mfg. Co. Winnipeg.	Codville Co., Moosejaw.
" 13	"	66448	E. F. Cassidy, " "	1 "	65	.....	Todhunter & Mitchell Toronto.
" 13	"	66449	J. R. Kelly, " "	1 "	60	.....	McDonald Crawford Co. Moosejaw.
" 13	"	66450	Geo. A. Tapley, " "	1 "	60	White Star Mfg. Co. Winnipeg.	.....

SESSIONAL PAPER No. 14
CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C. C. ñ per 100 grams.	Bicarbonate of pot ash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.		
						Alumina (AlsO ₃)		

JOHN TALBOT, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
.....	491	92.3	..	.....	.....	.....	.....	54680	Genuine. Commercial grade.
.....	481	90.4	..	.....	.....	.....	.....	54682	" "
.....	485	91.3	..	.....	.....	.....	.....	54684	" "
.....	486	91.4	.....	.....	.....	.....	.....	54686	" "
.....	532	100.0	..	.....	.....	.....	.....	54687	Genuine. Meets B. P. require-
.....	475	89.3	..	Trace.	.....	.....	.....	54689	Genuine. Commercial grade.
.....	495	93.1	..	.....	.....	.....	.....	54690	" "
.....	528	99.4	..	.....	.....	.....	.....	54693	Genuine. Meets B. P. require-
.....	494	92.9	.....	.....	.....	.....	.....	54696	Genuine. Commercial grade.
.....	478	90.0	.....	.....	.....	.....	.....	54697	" "

J. B. COSGROVE, TEMPORARY INSPECTOR.

.....	522	98.2	..	.....	.....	.....	.....	61426	Genuine. Meets B. P. require-
.....	526	98.9	.....	.....	.....	.....	.....	61427	Genuine. " " " "
.....	475	89.3	Pre-	.....	.....	.....	.....	61428	Genuine. Commercial grade.
.....	489	92.0	sent.	.....	.....	.....	.....	61429	" " " "
.....	519	97.6	.....	.....	.....	.....	.....	61430	Genuine. Meets B. P. require-
.....	520	97.8	.....	.....	.....	.....	.....	61434	Genuine. " " " "
.....	528	99.3	.....	.....	.....	.....	.....	61435	" " " "
.....	486	91.4	Pre-	.....	.....	.....	.....	61436	Genuine. Commercial grade.
.....	484	91.0	sent.	.....	.....	.....	.....	61437	" " " "
.....	474	89.2	.....	.....	.....	.....	.....	61438	" " " "

L. H. HALL, TEMPORARY INSPECTOR.

.....	596	98.9	.....	.....	.....	.....	.....	66446	Genuine. Meets B. P. require-
.....	524	98.6	.....	.....	.....	.....	.....	66447	" " " "
.....	484	91.0	Pre-	.....	.....	.....	.....	66448	Genuine. Commercial grade.
.....	526	98.9	sent.	.....	.....	.....	.....	66449	Genuine. Meets B. P. require-
.....	524	98.6	.....	.....	.....	.....	.....	66450	" " " "

7 GEORGE V, A. 1917

BULLETIN No. 335—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.

DISTRICT OF ALBERTA—

1915.							
Nov. 16	Cream of Tartar.	52286	Spencer Todd, Ltd., Medicine Hat.	1 lb.	60	Dalley's Hamilton ..	.....
" 16	"	52287	Sprague & Williamson, Medicine Hat.	3 tins.	60	F. F. Dalley & Co., Hamilton.	.....
" 17	"	52288	E. S. Bowden, Taber.	3 pkg.	60	Campbell Bros. & Wilson, Winnipeg	.....
" 17	"	52289	Vickery & Co., Taber.	1 lb.	70	Campbell, Wilson & Horne, Lethbridge	.....
" 17	"	52290	The Good Company, Lethbridge.	1 "	75	A. Macdonald Co., Lethbridge.	.....
" 18	"	52291	J. D. Higginbotham & Co., Ltd., Lethbridge.	1 "	1 00	Lyman's Ltd., Montreal.	.....
" 23	"	52292	The John Irwin Co., Calgary.	1 "	80	Georgeson & Co., Ltd., Calgary.	.....
" 23	"	52293	Geo. I. Wood, Calgary. ..	1 "	65	Georgeson & Co., Ltd., Calgary.	.....
" 24	"	52294	J. T. Macdonald, Calgary	3 pkts.	60	E. W. Gillett Co., Toronto.	.....
" 24	"	52295	S. G. Freeze, Calgary. .	3 "	60	Blue Ribbon, Ltd., Winnipeg.	.....

DISTRICT OF ROCKY MOUNTAINS—

Oct. 18	Cream of Tartar.	61891	M. Penney, Prince George	3 tins.	1 20	Kelly Douglas & Co., Vancouver.	.....
" 18	"	61892	Hood's Ltd., Prince George	3 "	75	White Star Mfg., Winnipeg.	.....
Nov. 16	"	61897	J. A. Menzies, Ltd., Merritt.	3 pkgs.	1 20	E. W. Gillett, Co., Toronto.	.....
" 16	"	61898	Merritt Mercantile Co., Merritt.	3 "	60	Wm. Braid & Co., Vancouver.	.....
Dec. 6	"	68109	N. L. McInnes, Grand Forks.	1 lb.	75	F. F. Dalley, Co., Hamilton.	.....
" 6	"	68110	Jeff Davis & Co., Grand Forks.	1 "	75	Kelly Douglas & Co., Vancouver.	.....

DISTRICT OF VANCOUVER—

Oct. 27	Cream of Tartar.	55376	David Spencer, Ltd., Vancouver.	1 lb.	70	Empress Mfg. Co., Vancouver.	.....
" 27	"	55377	W. H. Edgett, 118 Hastings St., W., Vancouver.	1 "	70	" "	.....
" 28	"	55378	Slater Bros., 131 Hastings St., E., Vancouver.	1 "	60	Kelly, Douglas & Co., Ltd., Vancouver.	.....
" 28	"	55379	The Cow Butter Store, 195 Hastings St., E., Vancouver.	3 tins.	45	Empress Mfg. Co., Vancouver.	.....

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. ñ per 100 grams.	Bicarbonate of potash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.		
								Alumina (Al ₂ O ₃)

A. W. R. MARKLEY, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Sold in bulk	474	89.2	Present.	...	...	...	...	52286	Genuine. Commercial Grade.
Guaranteed Pure	496	93.2	"	...	...	...	...	52287	"
Royal Shield Brand.	532	100.0	"	...	...	...	...	52288	Meets B. P. requirements.
Sold in bulk.	498	93.6	Present.	...	...	...	...	52289	Commercial Grade.
"	494	92.8	"	...	...	...	...	52290	"
"	532	100.0	"	...	...	...	...	52291	Meets B. P. requirements.
Tuxedo Brand	528	99.2	"	...	...	...	...	52292	"
"	532	100.0	"	...	...	...	...	52293	"
Guaranteed Chemically Pure.	532	100.0	"	...	...	...	...	52294	"
Pure Cream of Tartar.	532	100.0	"	...	...	...	...	52295	"

THOS. PARKER, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Nabobs	528	99.2	"	...	...	...	...	61891	Genuine. Meets B. P. requirements.
"	489	92.0	Present.	...	...	...	...	61892	Commercial Grade.
"	532	100.0	"	...	...	...	...	61897	Meets B. P. requirements.
"	530	99.0	"	...	...	...	...	61898	"
"	496	93.1	Present.	...	...	...	...	68109	Commercial Grade.
"	530	99.6	"	...	...	...	...	68110	Meets B. P. requirements.

E. J. MORGAN, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Sold in bulk	410	...	...	...	...	...	15.46	52296	Contains sand and coarse. Is a baking powder. Purchased by mistake.
"	539	99.0	Present.	...	...	...	...	52297	Genuine. Meets B. P. requirements.
"	517	97.2	"	...	...	...	...	52298	"
Empress Brand	532	100.0	"	...	...	...	...	52299	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1915.							
Oct. 28	Cream of Tartar.	55380	A. & C. Grocery, 520 Granville St., Vancouver.	1 lb..	65	Empress Mfg. Co., Vancouver.	.....
" 28	"	55381	Jas. A. Lowe, 1002 Seymour St., Vancouver.	3 pkgs	45	Wm. Braid & Co., Vancouver.	.....
Nov. 11	"	55382	W. H. Walsh, Seymour and Davie Sts., Vancouver.	1 lb..	70	" "	.....
" 11	"	55383	London Grocery Co., 1048 Granville St., Vancouver.	3 pkgs	45	Kelly, Douglas & Co., Vancouver.	.....
" 12	"	55384	New Westminster Co-Operative Association, New Westminster.	1 lb..	60	" "	.....
" 12	"	55385	Fraser River Supply Co., 548 Columbia St., New Westminster.	1 "	25	" "	.....

DISTRICT OF VICTORIA—

Nov. 10	Cream of Tartar.	66610	Windsor Grocery Co., 817 Govt. St., Victoria.	1 lb..	80	Pioneer Coffee and Spice Mills, Victoria.	.....
" 10	"	66621	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria.	3 tins.	45	Empress Mfg. Co., Vancouver.	.....
" 11	"	66626	Dixie H. Ross & Co., 1317 Govt. St., Victoria.	1 lb..	40	E. W. Gillett & Co., Co., Toronto.	.....
" 12	"	66631	Acton Bro., 1317 Douglas St., Victoria.	1 "	90	Wm. Braid & Co., Vancouver.	.....
" 12	"	66634	H. O. Kirkham & Co., 1109 Govt. St., Victoria.	1 "	75	.....	Kelly, Douglas Co., Vancouver.
" 15	"	66638	Copas & Young, 631 Fort St., Victoria.	1 "	70	E. W. Gillett & Co., Toronto.	.....
" 15	"	66639	Henry W. Driver, 856 Yates St., Victoria.	1 "	60	.....	W. H. Malkin Co., Vancouver
" 23	"	66643	E. B. Jones, 1800 Cook St., Victoria.	1 "	70	.....	W. A. Jameson Coffee Co., Victoria.
" 23	"	66644	Wellburn's Cash Grocery Store, 1058 Pandora Ave., Victoria.	1 "	60	E. W. Gillett Co., Toronto.	.....
" 24	"	66645	W. A. Jameson Coffee Co., 754 Broughton Ave., Victoria.	3 tins.	55	Nat. Aniline and Chem. Co., Chicago, U.S.A.	.....

SESSIONAL PAPER No. 14

CREAM OF TARTAR.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acidity C.C. in per 100 grams.	Bitartrate of pot. ash expressed as weight.	Lime (Ca O).	Phosphates.	Sulphates.	Starch.		
						Alumina Al_2O_3 .		

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Sold in bulk....	485	91.2	Pre-sent.	.....	Pre-sent.	.....	55380	Genuine. Commercial grade.
.....	525	98.8	"	.....	.....	.....	55381	" Meets B. P. require-ments.
Sold in bulk....	498	93.6	"	.....	.....	.....	55382	Genuine. Commercial grade.
Nabob Brand....	487	91.6	"	.....	.....	.....	55383	" " "
Sold in bulk....	525	98.8	.....	.....	.....	.....	55384	Genuine. Meets B. P. require-ments.
Sold as com-pound.	436	.....	.....	.....	21.2	36.36	55385	Sold as compound.

D. O'SULLIVAN, INSPECTOR.

.....	523	98.4	Pre-sent.	.....	.....	.....	66615	Genuine. Meets B. P. require-ments.
Empress Brand.	530	99.6	.....	.....	.....	.....	66621	" " "
Bulk	532	100.0	.....	.....	.....	.....	66626	" " "
Braid's Best..	504	94.8	Pre-sent.	.....	.....	.....	66631	Genuine. Commercial grade.
Nabob.	481	90.4	"	.....	.....	.....	66634	" " "
.....	532	100.0	.....	.....	.....	.....	66638	" Meets B. P. require-ments.
Dalley's Pure..	487	91.6	Pre-sent.	.....	.....	.....	66639	Genuine. Commercial Grade.
.....	532	100.0	.....	.....	.....	.....	66643	Genuine. Meets B. P. require-ments.
Gillett's Ground Cream of Tar-tar.	532	100.0	.....	.....	.....	.....	66644	" " "
Jameson's Victoria Brand.	532	100.0	.....	.....	.....	.....	66645	" " "

APPENDIX Z¹.

BULLETIN No. 336—TINCTURE OF GINGER.

OTTAWA, March 29, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—The accompanying report has to do with sixty-five (65) samples purchased as Tincture of Ginger, between September and December of last year.

This tincture is a solution of the oleo-resin of ginger in strong alcohol. The British Pharmacopœia prescribes alcohol of 90 per cent; that of the United States, alcohol of 94.9 per cent, both by volume. Unless strong alcohol is employed, the oleo-resin of ginger is not obtained in solution.

Experimental work recorded in Bulletin No. 110, demonstrated that the resins in solution, from different varieties of ginger, may vary from 0.260 per cent. (weight) to 0.499 per cent. Moor (*Suggested Standards*, p. 140) quotes many authorities who find from 0.290 to 0.680 per cent. Siggins (*The National Dispensatory*) finds from 0.480 to 0.700 per cent. T. Barclay (*Pharm. Jour.*, December, 1898) proposes 0.400 per cent oleo-resin as a standard below which a satisfactory tincture should not be recognized.

The specific gravity of the tincture should lie between 0.835 and 0.840. The loss of alcohol in making the tincture need not exceed one per cent. (See Bulletin 110, p. 13).

Reasonable allowance must be made for variation due to the natural differences found in commercial ginger, for losses in manufacture, and in dispensing. With these considerations in mind I would suggest the following limits:—

Specific gravity of tincture.	0.830 to 0.850
Alcohol content (vol. p.c.)	80.00 to 90.00 +
Oleo-resins, per cent.	0.250 to 0.700

The limits suggested allow a very wide margin, and it is hoped that experience will justify a closer approximation to a definite standard. Our experience of this article as found on the Canadian market is restricted to reports contained in Bulletins Nos. 34, 110, 179, and the present report.

It is to be remembered that the different pharmacopœias describe alcoholic preparations of ginger, which more or less resemble the B.P. tincture. This last is made with the use of 100 grammes of ginger to 1,000 cubic centimetres of alcohol, or, 1 part by weight in 10 parts by volume.

The U. S. P. tincture, is made with 200 grammes ginger to 1,000 cubic centimetres of alcohol, 1 part by weight to 5 parts by volume.

The U.S. Pharmacopœia (8th revision) describes a Fluid Extract of Ginger, made by the use of 1,000 grammes of ginger percolated with 1,000 cubic centimetres of alcohol, or, 1 part by weight to 1 part by volume.

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The British Pharmacopœia of 1885 defined a strong tincture of ginger (essence of ginger) made from 50 parts by weight of ginger and 100 parts of alcohol (volume), or 1 part by weight, to 2 parts by volume.

Finally the Canadian Formulary of 1900, defines a solution of ginger (Liquor Zingiberis) made from 50 parts of the strong tincture, 33.5 parts sugar and distilled water to produce 100 parts by volume.

It is quite apparent from the results of analysis here recorded, that our inspectors have, in many instances, been supplied, with one or other of these preparations, instead of the Tincture.

The following summary gives the results of analysis in brief:—

Samples found to meet legal requirements.. . . .	41
“ but slightly below requirements.. . . .	9
“ Essence, not Tincture of Ginger.. . . .	13
“ below requirements, and adulterated under the Act.. . . .	2
	—
Total.. . . .	65
	—

I beg to recommend publication of this report as Bulletin No. 336.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst

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BULLETIN No. 336—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
Oct. 20	Tincture of Ginger.	64276	C. A. Barnstead, Halifax, N.S.	12 ozs.	1.30	Vendor.....	
" 27	" ..	64277	Nat. Drug Co., Halifax, N.S.	12 "	1.02	Vendors.....	
" 28	" ..	64278	Brown Bros. & Co., Halifax, N.S.	12 "	1.05	" ..	
Dec. 7	" ..	64279	H. E. Wilson, Windsor, N.S.	12 "	1.00	Vendor.....	
" 8	" ..	64280	L. C. Gardner, Yarmouth, N.S.	12 "	90	" ..	
" 8	" ..	64281	B. F. Trask, Yarmouth, N.S.	12 "	1.00	" ..	

DISTRICT OF QUEBEC CITY—

Oct. 6	Extrait Gingembre.	56556	Jos. Masson, 808 St. Valier, Quebec.	12 ozs.	2.50	Parke, Davis Co....	Mfrs.....
" 12	" ..	56557	Willis, 4 St. Jean, Quebec....	12 "	1.50	Vendor	
" 13	" ..	56558	E. D. Morin & Cie, 113 Cote de la Montagne, Quebec.	12 "	1.50	Parke, Davis Co....	Mfrs.....
" 13	" ..	56559	V. Giroux, 11 St. Pierre, Quebec.	12 "	2.40	Horners.....	Mfr
" 15	" ..	56570	W. Brunet, 140 St. Joseph, Quebec.	12 "	2.50	Prost Co.....	"
" 15	" ..	56560	J. B. Giroux, 387 St. Joseph, Quebec.	12 "	2.75	Frank W. Horner, Montreal.	"
" 15	" ..	56561	J. P. Plamondon, 122 St. Joseph, Quebec.	12 "	2.50	.....
" 15	" ..	56562	L. E. Martel, 51 St. Joseph, Quebec.	12 "	1.80	Davis, Lawrence Co.,	E. Lachance
" 16	" ..	56563	M. Dion, 107 Rue Commercial, Quebec.	12 "	2.90	Parke, Davis Co....	Mfrs.

DISTRICT OF MONTREAL—

Nov. 29	Tincture of Ginger.	67281	J. A. Harte, 148 Notre Dame St. W., Montreal.	12 ozs.	1.20	Vendor.....	
" 29	" ..	67282	Birk's Pharmacy, 340 Notre Dame St. W., Montreal.	12 "	1.50	Lyman's Ltd....	
" 29	" ..	67283	Leduc's Drug Store, Chaboillez Square, Montreal.	12 "	1.25	" ..	
" 29	" ..	67284	A. LeBeau, 465 St. James St., Montreal.	12 "	1.50	" ..	
" 29	" ..	67285	Nat. Drug and Chem. Co., Montreal.	12 "	90	Vendors.....	
" 30	" ..	67286	Davis & Lawrence, Montreal.	12 "	1.00	" ..	

SESSIONAL PAPER No. 14

TINCTURE OF GINGER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. at 15-5° C.	Alcohol by weight.	Alcohol by volume.	Total Solids.		

R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.		
.....	0.8309	.....	89.44	0.35	64276	Meets legal requirements.
.....	0.8448	.....	85.92	3.37	64277	Essence of ginger.
.....	0.8267	.....	92.40	0.52	64278	Meets legal requirements.
.....	0.8276	.....	90.80	0.50	64279	" "
Made from Smarts & Co., Fluid Extract. B.P.	0.8341	.....	89.28	0.42	64280	" "
.....	0.8348	.....	89.72	0.52	64281	" "

F. X. W. E. BELAND, INSPECTOR.

			p. c.	p. c.		
.....	0.8542	.....	82.20	4.48	56556	Essence of ginger.
.....	0.8255	.....	92.04	0.41	56557	Meets legal requirements.
.....	0.8564	.....	81.48	5.43	56558	Essence of ginger.]
.....	0.8442	.....	86.36	3.00	56559	" "
.....	0.8326	.....	89.36	3.62	56570	" "
.....	0.8445	.....	86.77	2.98	56560	" "
.....	0.9706	.....	29.12	1.21	56561	Adulterated. Alcohol too low.
.....	0.8810	.....	74.32	5.02	56562	Essence of ginger. Alcohol rather low.
.....	0.8470	.....	84.76	4.42	56563	Essence of ginger.

D. J. KEARNEY, INSPECTOR.

.....	0.8509	81.05	86.36	0.76	67281	Meets legal requirements.
.....	0.8717	72.08	78.75	0.17	67282	Residue and alcohol slightly too low.
.....	0.8300	87.25	91.25	0.75	67283	Meets legal requirements.
.....	0.8269	90.32	93.55	0.56	67284	" "
.....	0.8393	83.40	89.84	0.55	67285	" "
.....	0.8417	83.92	90.20	0.54	67286	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
Nov. 30	Tincture of Ginger.	67287	Chas. E. Frost & Co., Montreal.	12 oz.	1.05		
" 30	"	67288	Chapman Dart Co., Montreal.	12 "	1.00		
" 30	"	67289	Parke, Davis & Co., Montreal.	12 "	1.20		
" 30	"	67290	Lyman, Knox & Co., Montreal.	12 "	1.00		

DISTRICT OF OTTAWA—

Sept. 30	Tincture of Ginger.	70526	T. Payment, Dalhousie St., Ottawa.	12 oz.	1.35	Vendor	
" 30	"	70527	Brethour's Drug Store, Bronson Ave., Ottawa.	12 "	1.35	"	
" 30	"	70528	C. H. Lewis, Bay St., Ottawa.	12 "	1.35	"	
Oct. 14	"	70529	Blair C. Roger, Main St., Ottawa East.	12 "	1.35	"	
" 15	"	70530	W. A. Henderson, Bank St., Ottawa.	12 "	1.35	"	
" 15	"	70531	F. W. Day, Bank St., Ottawa.	12 "	1.35	"	
" 15	"	70532	A. J. Brownlee, Bank St., Ottawa.	12 "	1.35	"	
" 15	"	70533	Allan & Cochrane, Bank and Sparks Sts., Ottawa.	12 "	1.35	"	
" 15	"	70534	E. D. Story, Bank St., Ottawa.	12 "	1.95	Nat. Drug Co., Ottawa.	
" 19	"	70545	P. J. Nolan, Wellington St., Ottawa.	12 "	1.35	Vendor	

DISTRICT OF TORONTO—

Oct. 25	Tincture of Ginger.	69925	Owl Drug Stores, Ltd., 336 Bloor St. west, Toronto.	12 oz.	1.25	Nat. Drug and Chem. Co., Ltd., Toronto.	
" 25	"	69927	Tamblyns, Ltd., 972 Bloor St. west, Toronto.	10 "	1.25	Vendors	
" 25	"	69928	W. H. C. Summerfeldt, 1096 Bloor St. west, Toronto.	12 "	1.35	E. B. Shuttleworth Co., Ltd., Toronto.	
" 25	"	69929	M. P. Rose, 1204 Bloor St. west, Toronto.	12 "	1.00	Vendor	
" 26	"	69930	F. B. Bunting, 221 Wellesley St., Toronto.	12 "	1.00	Unknown	
" 26	"	69931	S. M. Green, 556 Parliament St., Toronto.	12 "	1.00	Vendor	
" 26	"	69932	W. H. Robson, 296 Gerrard St. east, Toronto.	12 "	1.20	Nat. Drug and Chem. Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

TINCTURE OF GINGER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 15°-6° C.	Alcohol by weight.	Alcohol by volume.	Total Solids.		

Concluded.

		p. c.	p. c.	p. c.		
.....	0.8292	90.32	93.52	0.39	67287	Meets legal requirements.
.....	0.8819	67.11	74.32	0.32	67288	Slightly below strength in alcohol.
.....	0.8348	85.46	89.84	0.92	67289	Nearly meets legal requirements.
.....	0.8799	67.56	74.72	3.17	67290	Slightly below strength in alcohol. Is essence; not tincture of ginger.

J. A. RICEY, INSPECTOR.

.....	0.8297	88.81	92.40	0.38	70526	Meets legal requirements.
.....	0.8282	90.88	93.92	0.46	70527	" "
.....	0.8269	10.32	93.52	0.60	70528	" "
.....	0.8251	92.01	94.72	0.35	70529	" "
Made from Burrows & Wellcome's concen- trate.	0.8254	90.88	93.92	0.39	70530	" "
.....	0.8279	89.30	92.76	0.59	70531	" "
.....	0.8276	92.56	95.12	0.52	70532	" "
.....	0.8228	88.81	92.40	0.40	70533	" "
.....	0.8398	83.57	88.36	0.52	70534	" "
.....	0.8263	89.36	92.76	0.44	70545	" "

H. J. DAGER, INSPECTOR

.....	0.8497	80.16	85.64	3.24	69925	Essence of ginger.
.....	0.8240	91.43	94.32	0.47	69927	Meets legal requirements.
Bottle labelled Tincture Ginger fort.	0.8339	87.32	91.28	2.60	69928	Essence of ginger.
.....	0.8365	85.92	90.20	0.82	69929	Meets legal requirements.
.....	0.8986	60.67	68.32	1.99	69930	Alcohol too low and solids high. Aval brand.
.....	0.8281	88.36	92.04	0.54	69931	Meets legal requirements.
.....	0.8402	84.04	88.72	0.32	69932	" "

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BULLETIN No. 336—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1915.							
Oct. 26	Tincture of Ginger.	69933	Liggetts, Ltd., 224 Yonge st., Toronto.	12 ozs.	1.00	Unknown....	
" 26	"	69934	T. Eaton Co., Ltd., Yonge and Queen sts., Toronto.	12 "	75	Vendors	
" 26	"	69935	The Hennessey Drug Stores, Ltd., 117 Yonge st., Toronto.	12 "	1.25	E. B. Shuttleworth Co., Ltd., Toronto.	
DISTRICT OF VANCOUVER—							
Oct. 30	Tincture of Ginger.	55396	Vancouver Drug Co., 405 Hastings st., W., Vancouver, B.C.	12 ozs.	1.20	Vendors.....	
" 30	"	55397	E. S. Knowlton, 1 Hastings st., E., Vancouver, B.C.	12 "	1.50	Vendor.....	
" 30	"	55398	Owl Drug Co., Ltd., 399 Powell st., Vancouver, B.C.	12 "	1.20	Vendors.....	
" 30	"	55399	Capitala Pharmacy, 1100 Davie st., Vancouver B.C.	12 "	1.00	"	
Nov. 1	"	55400	Georgia Pharmacy, 699 Granville st., Vancouver, B.C.	12 "	1.50	"	
" 1	"	55401	David Newall, 994 Granville st., Vancouver, B.C.	12 "	1.20	Vendor.....	
" 2	"	55402	Woods' Pharmacy, 601 Hastings st., W., Vancouver, B.C.	12 "	1.50	"	
" 2	"	55403	Red Star Drug Store, 53 Cordova st., W., Vancouver, B.C.	12 "	1.00	"	
" 2	"	55404	MacLennan's Drug Store, 750 Columbia st., New Westminster, B.C.	12 "	1.50	"	
" 2	"	55405	H. Ryall, New Westminster, B.C.	12 "	1.50	"	
DISTRICT OF VICTORIA—							
Nov. 8	Tincture of Ginger.	66605	John Cochrane, 1300 Douglas st., Victoria, B.C.	12 ozs.	1.25	May & Baker, Ltd., Battersea, London, S.W.	
" 8	"	66606	W. Jackson & Co., 1411 Douglas st., Victoria, B.C.	12 "	1.20	Lymans, Ltd., Montreal.	
" 8	"	66607	Hall & Co., 702 Yates st, Victoria, B.C.	12 "	1.25	Vendors.....	
" 8	"	66608	Cyrus H. Bowes, 1228 Government st., Victoria, B.C.	12 "	1.25	Vendor	
" 8	"	66609	F. J. Williams, Fort and Government sts., Victoria, B.C.	12 "	1.25	"	
" 8	"	66610	Geo. H. Fraser & Co., 912-914 Government st., Victoria, B.C.	12 "	1.25	Vendors.....	
" 8	"	66611	W. S. Terry, P.O., Box 504, Victoria, B.C.	12 "	1.20	Nat. Drug and Chem. Co., Victoria, B.C.	
" 8	"	66612	D. E. Campbell, Douglas and Fort sts., Victoria, B.C.	12 "	1.25	Vendor	
" 8	"	66613	Ivel's Pharmacy, 1415 Government st., Victoria, B.C.	12 "	1.20	"	
" 8	"	66614	Aronson & Elwin, Fort & Cook sts., Victoria, B.C.	12 "	1.20	Vendors	

SESSIONAL PAPER No. 14

TINCTURE OF GINGER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 15.5° C.	Alcohol by weight.	Alcohol by volume.	Total Solids.		

Concluded.

		p. c.	p. c.	p. c.		
.....	0.8538	78.63	84.36	0.68	69933	Meets legal requirements.
.....	0.8243	92.56	95.12	0.46	69934	" "
.....	0.8446	82.09	87.16	1.84	69935	Essence of Ginger.

E. J. MORGAN, INSPECTOR.

Prepared from Concentrated Extract.	0.8253	.....	91.60	0.83	55396	Meets legal requirements.
" "	0.8346	.....	88.20	2.21	55397	Essence of Ginger.
" "	0.8271	.....	90.80	0.80	55398	Meets legal requirements.
" "	0.8506	.....	83.40	1.00	55399	Nearly meets legal requirements.
" "	0.8252	.....	91.00	0.90	55400	" "
" "	0.8228	.....	91.60	0.68	55401	Meets legal requirements.
" "	0.8232	.....	91.00	0.84	55402	" "
" "	0.8335	.....	88.80	0.75	55403	" "
" "	0.8272	.....	90.00	0.83	55404	" "
" "	0.8320	.....	88.40	0.95	55405	Nearly meets legal requirements.

D. O'SULLIVAN, INSPECTOR.

.....	0.8293	.....	91.00	0.83	66605	Meets legal requirements.
.....	0.8255	.....	91.00	1.08	66606	Nearly meets legal requirements.
.....	0.8431	.....	85.80	0.90	66607	" "
.....	0.8230	.....	92.40	0.75	66608	Meets legal requirements.
.....	0.8261	.....	91.60	0.63	66609	" "
.....	0.8256	.....	92.20	1.00	66610	Nearly meets legal requirements.
.....	0.8272	.....	92.20	0.68	66611	Meets legal requirements.
.....	0.8244	.....	92.20	0.66	66612	" "
.....	0.8254	.....	92.40	0.65	66613	" "
.....	0.8538	.....	85.20	0.82	66614	" "

APPENDIX Z².

BULLETIN No. 337—LEMON FLAVOURING EXTRACT.

OTTAWA, March 31, 1916.

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

SIR,—I have the honour to report upon the results of analysis of an inspection of Lemon Flavouring Extract.

This comprises 223 samples obtained by our inspectors in July, August and September of last year.

Lemon Flavouring Extract has been made the subject of inspection on three former occasions and results reported as follows:—

Bulletin 89, 1903— 27 samples.

Bulletin 114, 1906—110 “

Bulletin 198, 1910— 75 “

The last named report contains information intended to furnish a basis for standardization of the article, and this information is summarized thus:—

1. Extract of lemon is valued for its characteristic flavour.
2. This flavour depends upon the presence of certain constituents of lemon oil.
3. The terpenes which constitute more than 90 per cent of lemon oil, are not important from the point of view of contributing flavour to the oil.
4. It is mainly to dissolve the terpenes of lemon oil that strong alcohol is used as a solvent.

5. The citral, citronellal, and other flavour giving components of lemon oil, constitute less than 10 per cent of the oil, and may be effectively got into solution, from the oil, by weak alcohol.

6. If these flavouring components are derived immediately from fresh peel, a strong alcohol must be employed, on account of the water present in the peel. The alcohol content of the finished extract will, however, be low.

7. A good flavouring extract can be prepared either from fresh lemon peel, from lemon oil, or from so called terpeneless lemon oil. It is according to commercial usage to prepare it from the lemon oil, rather than from the peel.

8. A weak alcohol (proof strength) suffices to dissolve the flavour giving constituents from the oil; and the employment of a stronger alcohol merely adds to the cost of the extract, without corresponding improvement of quality.

9. The citral of lemon-grass oil is not to be confounded with that from true lemon oil. Both citrals are more or less definite bodies, being essentially aldehydic, but associated with aromatic substances which are lemon-like in one case and more or less verbena-like in the other. The distinction between them is not at present, evident to chemical methods.

10. Methods for the quantitative determination of citral are being studied; and it is hoped that a practical method may be discovered, thus enabling Lemon Extract to be judged by determination of the component to which it owes its commercial importance.

By an Order in Council of 17, Oct. 1912 (published as Departmental Circular G. 1045) Lemon Extract is defined as below:—

“Lemon Extract is the flavouring Extract prepared from lemon peel, or from oil of lemon, and contains, along with more or less of the terpenes of Lemon Oil, not less than two tenths (0.2) of one per cent of citral derived from Oil of Lemon.”

This definition recognizes that the terpene content of lemon oil (consisting of above 90 per cent of the whole) is of secondary importance as a flavouring material. The flavour-giving components of lemon oil are essentially citral and citronellal, with smaller amounts of other substances. It remains true, however, that some difficulty is found in fully removing these flavour-giving components of the oil, without at the same time taking into solution a large portion, or even the whole of the terpenes; and the successful manufacture of a terpeneless lemon flavouring extract demands great care, and experience, as will be seen in the further study of this report.

The Order in Council just mentioned defines a Terpene Lemon Extract, as follows:—

“Terpene lemon extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of Oil of lemon, and not less than two tenths (0.2) of one per cent of Citral, derived from oil of lemon.”

This article (terpene lemon extract), is identical with the ordinary lemon extract of the U.S.A. regulations. Its manufacture demands the use of strong alcohol, without which the terpene content of oil of lemon cannot be held in solution. It has the advantage of assuring the corresponding citral content; while, in order to obtain the required amount of citral in solution where a weaker alcohol is employed, a high degree of care and skill are demanded on the part of the manufacturer.

The method employed in Citral determination in these extracts is that described by Hiltner (Jour. Ind. and Engin. Chemistry, 1909, p. 798). The method appears in Leach, Food Inspection and Analysis, Second Edition, p. 868; also in Parry's “Food and Drugs”, 1911, p. 264; and in Abstract. Journ. Soc. Chem. Industry. 1910, p. 172.

Hiltner's work indicates a degree of accuracy which makes possible the determination of citral within 0.01 gramme per 100 cc. where amounts varying from 0.025 to 0.200 are present.

Work done in this laboratory shows that a somewhat less degree of accuracy than that indicated above, is obtainable with commercial extracts, possibly due to progressive oxidation of the aldehyde in presence of sunlight, and on prolonged keeping. Still another difficulty appears where the article is artificially coloured, a concession permitted without declaration by Order in Council of 9th January, 1915 (G. 1167).

The total error due to combination of all these causes may amount to 0.03 citral; and I have taken the precaution of allowing a departure of 0.05 from the standard requirements of 0.20 citral per 100 cc. before declaring the sample adulterated, under the Act. In no case has this conclusion been reached until two more determinations were made upon the sample.

It is regrettable that the term *adulterated* must apply to samples sold as genuine, but found to contain less than the minimum amount of citral. Section 3 (g) of the Act, defines as adulteration any failure to reach a standard prescribed by Order in Council. To the ordinary reader, the word implies purposeful addition of a fraudulent kind. This meaning must not be read into the word as used in this report. It is certain that the large number of failures to meet our standards are mainly due to faulty methods of manufacture, and not to intentional fraud. As I have already

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pointed out, the attempt to get into solution a proper amount of citral by use of a weak alcohol (less than 50 per cent. strength) makes demands that can only be successfully met by much experience and acquired skill. That the great majority of these extracts are intended to be trypeneless, is shown by the following facts:—

Out of 223 samples, only 10 samples contain above 5 per cent lemon oil, only 15 samples above 4 per cent, only 23 samples above 3 per cent, and only 40 samples above 2 per cent. All samples containing as much as 3 per cent lemon oil are found to contain the required minimum amount of citral. It is also noteworthy that, with exception of three or four samples, all those found to contain less than the standard minimum amount of citral are made with alcohol of less than 50 per cent strength.

The results of this inspection may be summarized as follows:—

Samples found to meet standard.	83
“ sold as compound	68
“ sold mistakenly.	3
“ adulterated under the Act.	69
Total.	<hr/> 223 <hr/>

I beg to recommend publication of this report as Bulletin No. 337; and I would further respectfully suggest that for this first inspection of Lemon Extract since legalization of Standards, the presence of 0.10 per cent of citral be recognized as proving good faith on the part of the manufacturer. This without prejudice to later inspections.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

7 GEORGE V, A. 1917
BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1915.									
Sept.	9	Lemon Flavouring Extract.	64236	Payzant & King, Halifax.	3 bots.	24	E. Gass, Halifax.	Mfr . . .	Maker's name on label stated Tangalla Messina, Perfecto Brand.
"	9	"	64237	Nat. Drug and Chem. Co., Halifax.	3 "	40	Vendors.....	"	Queen Brand.
"	21	"	64238	J. L. Wilson & Co., Halifax.	3 "	30	Nat. Drug and Chem. Co., Halifax.	Mfrs.....	Sovereign Brand.
"	21	"	64239	R. B. Serton & Co., Halifax.	3 "	40	Robmson Mfg. Co., Toronto.	"	"
"	22	"	64240	John Tobin & Co., Halifax.	3 "	59	Vendors.....	"	"

DISTRICT OF NOVA SCOTIA—

Aug.	10	Lemon Ex- tract.	69806	A. J. Roop, New Glasgow.	3 bots.	30	G. E. Barbour Co., Ltd., St. John.	Mfrs.. .	"
"	10	"	69807	Jas. Cavanagh, New Glas- gow.	3 "	30	Henri Jonas & Co., Mon- treal.	"	"
"	11	"	69808	S. M. Lockhart & Co., New Glasgow.	3 "	30	G. E. Barbour Co., Ltd., St. John.	"	"
"	11	"	69809	"	3 "	75	Pure Gold Mfg. Co., Toronto.	"	"
"	11	"	69810	2 Barker's Co., New Glas- gow.	3 "	30	H. C. & S. Co.	"	"
"	13	"	69811	James McArthur, New Glasgow.	3 "	75	Shirriff's, Ltd., Toronto.	"	"
"	13	"	69812	C. Grant, New Glasgow.	3 "	45	Maritime S. & C. Mills, St John.	"	"
"	14	"	69813	F. W. Curry, Stellarton.	3 "	30	F. F. Dalley Co., Hamil- ton, Ont.	R. McGre- gor & Sons, New Glasgow	"
"	14	"	69814	C. A. Fraser & Co., Stellarton.	3 "	30	Baird Co., Ltd., Wood- stock, N.B.	"	"
"	17	"	69815	Abraham Myette, Tra- cadia, N.S.	30	The Regal Mfg. Co., St John, N.B.	Mfrs.....	"

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LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific gravity at 15° C.	Alcohol by volume.	Polarization in 2 dm. tube at 20° C.	Equivalent Lemon Oil.	Citral.	Refractive Index of oil.		

R. J. WAUGH, INSPECTOR.

		p. c.		p. c.	p. c.			
Tangalla & Co. Perfecto Lemon Essence.	0.9774	18.8	0.0	0.00	0.08		64236	Below standard in citral. Adulterated.
Nat. Drug and Chem. Co. Queen Mixture Extract Lemon.	0.9141	59.6	0.4	0.12	0.22		64237	Sold as Mixture. Contains 0.22 p. c. citral.
Nat. Drug and Chem. Co. Sovereign Pure Extract Lemon.	0.9249	54.7	0.5	0.16	0.15		64238	Genuine.
Robinson Mfg. Co. Quint Essence Pure Lemon Extract.	0.9555	37.7	0.0	0.00	0.10		64239	Below standard in citral.
Jno. Tobin & Co. Lemon Flavouring Extract.	0.8951	67.9	0.4	0.12	0.15		64240	Genuine.

WALTER O. PETIPAS, TEMPORARY INSPECTOR.

Lemon Extract	0.9340	50.3	0.0	0.0	0.17		63900	Genuine.
Lemon Mixture	0.8771	72.0	7.8	2.44	0.18		63899	Sold as Mixture. Contains 2.44 p. c. lemon oil and 0.18 citral.
G. E. Barbour Co. Lemon Extract. Acorn Brand.	0.9346	50.0	0.1	0.12	0.18		63898	Genuine.
Pure Gold Co. Pure Gold Flavouring Extract Lemon.	0.9338	50.3	0.2	0.16	0.16		63897	
Labelled Artificial	0.9770	19.5	0.0	0.00	0.10		63901	Sold as artificial.
True Lemon Extract	0.9360	49.1	0.5	0.10	0.28		63902	Genuine.
Labelled Compound	0.9711	55.0	0.0	0.0	0.00		63903	Sold as compound.
Pure Lemon Extract	0.9511	80.0	12.0	4.00	0.10		63904	Genuine, with 4 per cent lemon oil.
Baird Co., Ltd. Superior Flav. Extract Lemon Highly Concentrated	0.9702	25.0	1.0	0.47	0.20		63905	Genuine.
Lemon Extract Compound.	0.9670	50.0	0.0	0.00	Trace.		63906	Sold as compound.

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BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF CAPE BRETON—

1915.								
July 27	Lemon Flavouring Extract.	63818	H. V. Raymond, Sydney.	3 bots.	75	Gorman Eckert Co., London, Ont.		
" 28	"	63821	C. B. Wholesale Grocery Co., Sydney.	3 "	36	Pure Gold Mfg. Co., Toronto.		
" 28	"	63822	" " " "	3 "	39	G. E. Barbout Co., St. John.		
" 28	"	63823	" " " "	3 "	36	F. F. Dalley Co., Hamilton.		
" 28	"	63827	J. J. Turnbull, Sydney	3 "	33	Vendor		
" 28	"	63828	W. T. Cleary, Sydney	3 "	30	Heron Leblanc Co., Montreal.		

DISTRICT OF PRINCE EDWARD ISLAND—

July 14	Lemon Extract.	60343	Beer & Goff, Charlottetown.	3 bots.	30	Nat. Drug and Chem. Co., Ltd., Halifax.		
" 14	"	60344	" " " "	3 "	30	Pure Gold Mfg. Co., Ltd., Toronto.		
" 14	"	60345	Jenkin & Son, Charlottetown.	3 "	75	Henri Jonas & Co., Montreal.		
" 15	"	60346	Prowse & Sons, Murray Harbour.	3 "	60	Chamberlain Med. Co., Toronto.		
" 15	"	60347	" " " "	3 "	30	G. E. Barbout Co., Ltd., St. John.		
" 15	"	60348	Mrs. Wm. Charon, Murray Harbour.	3 "	30	The Royal Standard Mfg. Co., Woodstock, N.B.		
" 15	"	60349	David Bull, Murray Harbour.	3 "	30	G. E. Barbout Co.		
" 16	"	60350	Coffin & Co., Charlottetown.	3 "	30			
" 16	"	60351	P. A. Smith, Charlottetown.	3 "	45	The Swan Mills, Toronto.		
" 16	"	60352	J. G. Passmore, Charlottetown.	3 "	30	McLaren's, Ltd., Hamilton.		

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LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15.5° C.	Alcohol by Volume.	Polarization in 2 dm. Tube at 20° C.	Equivalent Lemon Oil.	Citral.	Refractive Index of Oil.		
E. T. MACKEEN, INSPECTOR.								
		p. c.		p. c.	p. c.			
Gorman, Eckert Co. Pure Flavouring Extract Lemon.	0.9341	59.1	+ 0.5	0.16	0.11	.....	63818	Below standard in citral.
Pure Gold Co. Gov. Standard Lemon. Pure Flavouring Extract.	0.9372	48.7	0.0	0.00	0.15	.....	63821	Genuine.
G. E. Barbour. Pure Flavouring Lemon Extract.	0.9361	49.1	+ 0.5	0.16	0.12	.....	63822	Below standard in citral.
Dalley's Pure Fruit Lemon Extract.	0.8514	80.1	+ 14.0	4.37	0.20	.....	63823	Genuine, with 4.37 p.c. lemon oil.
J. J. Turnbull. Essence Lemon.	0.8309	81.9	+ 29.6	9.25	0.31	.....	63827	Genuine. Double normal strength.
"Crown" Lemon Flav. Extract.	0.9641	31.3	0.0	0.00	0.11	.....	63828	Below standard in citral.
WM. A. WEEKS, INSPECTOR.								
Nat. Drug and Chem. Co. Sovereign Extract Lemon.	0.9168	58.0	+ 1.6	0.50	0.25	.....	60343	Genuine.
Pure Gold Mfg. Co. Pure Gold Flavouring Extract Lemon.	0.8931	68.6	0.0	0.0	0.21	.....	60344	
Henri Jonas & Co. Royal Quint Essences Pure Lemon.	0.8532	79.4	+ 14.4	4.50	0.25	.....	60345	Genuine, with 4.5 p.c. lemon oil.
Chamberlain & Co. Superfine Lemon Extract.	0.9385	47.8	+ 0.4	0.12	0.12	.....	60346	Below standard in citral.
.....	0.9350	49.8	0.0	0.0	0.18	.....	60347	Genuine.
The Royal Standard, manufacturers of Royal Standard Fruit Flavouring Ext. Lemon.	0.9294	52.4	+ 0.6	0.18	0.15	.....	60348	
G. E. Barbour Co. Acorn Brand Lemon.	0.9275	53.5	0.0	0.00	0.23	.....	60349	
Coffin & Co. Lemon Pure Extract; colour added.	0.8651	77.6	+ 18.0	5.62	0.36	.....	60350	Genuine, with 7.62 p.c. lemon oil.
White Swan Mill. Phoenix Ext. Lemon Mixture.	0.9788	17.4	0.0	0.00	0.06	60351	Sold as a mixture.
McLaren's, Ltd. Dew Drop Lemon Mixture.	0.9777	19.0	0.0	0.00	0.12	60352	

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BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1915.								
July 14	Lemon Flavouring Extract.	66131	W. A. Simonds, St. John.	3 bts.	36	Pure Gold Mfg. Co., Ltd., Toronto.		
" 14	"	66132	" " "	3 "	36	F. F. Dalley Co., Ltd., Hamilton.		
" 14	"	66133	Dearborn & Co., St. John.	3 "	30	Vendors....		
" 15	"	66134	Nat. Drug and Chem. Co., St. John.	3 "	30	"		
" 16	"	66135	2 Barkers, Ltd., St. John.	3	60	Estey & Curtis Co., Ltd., Hartland, N.B.		Imperial Flavouring Mixture.
" 19	"	66136	Baird & Peters, St. John.	3 "	25	Gorman, Eckert & Co., London, Ont.		
" 19	"	66137	The Canadian Drug Co., Ltd., St. John.	3	25	Vendors....		
" 21	"	66138	G. E. Barbour Co., Ltd., St. John.	"	54	"		Acorn Brand.
" 21	"	66139	Puddington, Wetmore & Morrison, Ltd., St. John.	3 "	50	"		Signet Brand.
Aug. 18	"	66140	The Baird Co., Ltd., Woodstock.	3 "	45	"		

DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU

July 7	Lemon Extract.	3607	Dorchester Lumber Co., St. Malachi, Dorchester County.	3 bts.	30	.....	.....	Golden Star Brand, Montreal.
" 13	Extract Lemon.	3613	J. A. Cloutier, St. Odilon.	3 "	30	.....	Herron & Leblanc.	.....
" 14	"	3917	P. C. M. Decline, St. Germain.	3 "	25	Northrop & Lyman Co., Toronto.	.....	.....
" 15	"	3619	A. Caillouette, St. Justine.	3 "	30	E. Morin, Quebec.
" 16	"	3623	P. K. Prevots, Ste. Rose.	3 "	30	Dr. Morin, Quebec.

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LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15.5 C.	Alcohol by Volume.	Polarization in 2 dm. Tube at 20° C.	Equivalent Lemon Oil.	Citral.	Refractive Index of Oil.		

JOHN C. FERGUSON, INSPFCTOR.

		p. c.		p. c.	p. c.			
Pure Gold Co. Pure Gold Lemon.	0.8907	69.6	0.6	0.00	6.25		66131	Genuine.
F. F. Dalley Co. Pure Fruit Extract Lemon.	0.8455	82.9	+11.4	3.56	0.15		66132	Genuine, with 3.56 p.c. lemon oil.
Dearborn's Superior Lemon Extract.	0.8299	89.1	+7.6	2.06	0.17		66133	Genuine, with 2.06 p.c. lemon oil.
Nat. Drug and Chem. Co. "Star Extract" Lemon.	0.8262	85.8	+21.2	6.62	0.30		66134	Genuine, with 6.62 p.c. lemon oil.
Estey & Curtis Co. Imperial Lemon Flavouring Extract.	0.8270	86.0	+19.2	6.00	0.32		66135	Genuine, with 6 p.c. lemon oil.
Gorman, Eckert & Co. Oriental Lemon Extract Compound.	0.9688	27.1	0.0	0.00	0.05		66136	Sold as compound.
Canadian Drug Co. "Evangeline Brand" Lemon.	0.8246	89.8	+9.4	2.94	0.18		66137	Genuine, with 2.94 p.c. lemon oil.
G. E. Barbour Co. Acorn Brand Lemon Extract.	0.8246	86.0	+21.6	6.75	0.28		66138	Genuine, with 6.75 p.c. lemon oil.
Paddington, Wetmore, Morrison. "Signet Brand" Lemon Flavouring Extract.	0.9312	51.4	1.0	0.31	0.15		66139	Genuine.
The Band Co., Ltd. Lemon Superior Extract.	0.8255	85.4	+22.6	7.06	0.26		66140	Genuine with 7.06 p.c. lemon oil.

N. CADIEUX, T. GENDREAU, TEMPORARY INSPECTORS.

Lemon Extract	0.9731	23.01	0.7	0.2	0.01		2867	Below standard in citral. Adulterated.
" Extracts	0.9773	18.08	0.0		0.00		2818	Adulterated.
Northrop & Lyman Co. Lemon Concentrated Flavouring Extract.	0.9386	47.89	0.2		0.20		2817	Genuine.
Windsor Spice Mills. Lemon Mixture "Reina"	0.9867	15.46	0.0	0.20	None		2819	Below standard in citral.
Lemon Double Strength	0.9799	20.35	0.0		0.03		2823	Adulterated.

7 GEORGE V, A. 1917

BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC PROVINCE—								
1915.								
July 17	Extract Lemon.	3629	Gariépie, Ste. Prospère...	3 bts.	30	.....	Carriere & Fils, Lévis.	
" 26	"	3634	J. A. Poulin, Valley Jct.	3 "	30	J. B. Reneaud & Co., Quebec.		
" 29	"	3639	J. O. Gagné, Ste. Hénédine.	3 "	30	.....	Carriere & Fils, Lévis.	
" 22	Lemon Extract.	3596	Louis Corriveau, St. Michel.	3 "	30	Integrity Mills, Toronto.		
" 22	"	3599	Geo. Roy, St. Michel...	3 "	30	S. H. Ewing & Sons, Montreal.		
" 22	"	4407	J. A. Lemieux, St. Michel.	3 "	60	Henri Jonas Co., Montreal.		
" 22	"	4414	J. E. Bouillard, St. Gervais.	3 "	33	Imperial Flavouring.		
" 22	"	4418	Benoit, Aubin, St. Lazare.	3 "	33	.....	Herron, Leblanc, Ltd., Montreal.	
" 22	"	4420	Alphonse Audet, St. Lazare.	3 "	33	.....	Drouin Freres, Rattray, Quebec.	
" 23	"	4424	Jean Ruel, Buckland	3 "	36	.....	J. B. Reneaud.	
" 12	Lemon Flavouring Extract.	296	J. B. Gougeon, St. Jerome.	3 "	60	.....	Hudon & Orsali.	
" 19	"	308	L. W. Brissette, Ste. Agathe des Monts.	3 "	30	Jonas.....		
" 19	"	309	F. D. Hall, Ste. Agathe des Monts.	3 "	75	Dalley's...		
" 19	Lemon Extract.	314	H. Gareau, St. Faustin Station.	3 "	30	Jonas.....		
" 19	"	317	H. Côté, St. Faustin Station.	3 "	30	Northrop & Lyman Co.		
" 19	"	318	Jos. Gareau, St. Faustin.	3 "	30	"		
Sept. 14	Extrait de Lemon.	325	E. St. Maurice, St. Eustache, Co. des deux Montagnes.	3 "	30	E. Lubon, Nice.		
" 14	"	328	Belair & Paquette, St. Eustache, Co. des deux Montagnes.	3 "	54	Henri Jonas & Co.		

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LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Specific gravity at 15.6 C.	Alcohol by volume.	Polarization in 2 dm. tube at 20° C.	Equivalent Lemon Oil.	Citral.	Refractive Index of Oil.		
		p. c.	p. c.	p. c.				
Morins' Citron Extract.	0.9667	29.04 + 0.2	....	0.07	....	....	3629	Adulterated.
J. B. Renaud. Lemon Mixture.	0.9695	26.49 + 0.8	0.20	0.04	....	....	3634	Sold as a mixture.
Lemon Mixture	0.9720	24.08 + 0.2	....	0.03	....	....	3639	"
Lemon Extract	0.9699	26.13	0.0	0.10	....	....	3596	Below standard in citral.
Labelled Vanilla Mixture, Sample is Lemon.	0.9605	34.18	0.0	0.05	....	....	3599	Sold as a mixture.
Mixture	0.8765	19.78 + 7.7	2.5	0.10	1.4739	....	4407	Sold as a mixture. Contains 2.5 p.c. lemon oil.
Pure Gold Mfg. Co. Imperial Flavouring Mixture Extract.	0.9530	39.47 + 0.1	....	0.08	....	....	4414	Sold as a mixture
Red Cross Lemon Extract.	0.9652	30.40 + 0.1	....	0.05	....	....	4418	Adulterated.
Lemon Flavouring Extract.	0.9788	17.37	0.1	0.02	....	....	4420	
Lemon Mixture	0.9705	25.57	0.0	0.01	....	....	4424	Sold as Mixture.
Artificial Lemon Extract.	0.9562	37.20 + 0.2	....	0.20	....	....	296	Sold as artificial, but contains 0.20 p.c. citral.
Lemon Extract	0.8721	76.91 + 7.8	2.4	0.14	....	....	308	Below standard in citral, with 2.4 p.c. lemon oil.
Dalley's Pure Lemon Extract.	0.8479	85.63 + 15.3	4.8	0.30	....	....	309	Genuine with 4.8 p.c. lemon oil.
Lemon Mixture	0.8750	75.83 + 7.0	2.1	0.16	....	....	314	Sold as a mixture. Contains 2.1 p.c. lemon oil and 0.16 citral.
Lemon Extract	0.9476	42.92	0.3	0.10	....	....	317	Below standard in citral.
Gold Seal Lemon Extract.	0.9260	54.10	0.0	0.31	....	....	318	Genuine.
Triple Flavouring Extract Lemon.	0.9593	41.16 + 0.2	....	0.15	....	....	325	"
Triple Concentrated Mixture Extract Lemon.	0.8727	76.68 + 8.1	2.4	0.11	1.4740	328	Contains 2.4 p.c. lemon oil. Sold as a mixture.

Continued.

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BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC PROVINCE—

1915.								
July 20	Essence Citron	2779	Joseph Dubé, Cap St. Ignace.	3 bots.	30	Gagnon & Garent, Quebec.		
" 21	"	2782	Jean Bte. Poirier, Montmagny.	3 "	30	Herron, Leblanc, Quebec.		
" 21	"	2785	Jos. Fournier, St. Thomas, Montmagny.	3 "	30	The Chem. Wks., Hamilton.		
" 27	Extract Lemon.	2793	Desiré Fradette, N. D. du Rosaire.	3 "	30	Golden Star Brand, Montreal.		

DISTRICT OF THREE RIVERS—

July 15	Lemon Flavouring Extract.	69122	W. H. Lacasse, L'Assomption.	3 bots.	25	Henri Jonas & Cie, Montreal.		
" 15	"	69123	Arthur Lafontaine, L'Assomption.	3 "	25		Hudon, Orsali, Montreal.	
" 14	"	69137	L. Pauze, L'Assomption.	3 "	25	International Food Co., Toronto.		
" 19	"	69138	W. Perreault, Joliette	3 "	45	Henri Jonas & Cie, Montreal.		
" 20	"	69141	A. L. Caisse, Berthierville.	3 "	45	"		
" 20	"	69142	" " "	3 "	45	"		
" 20	"	69143	" " "	3 "	45	"		
" 21	"	69151	O. Paquette, Berthierville.	3 "	39	Litster, Toronto.		
" 21	"	69152	O. Daviault, Berthierville.	3 "	30		Pierre Beaudoin, Berthierville.	
"	"	69153	" " "	3 "	60	Henri Jonas & Cie, Montreal.		

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15-5 C.	Polarization in 2 dm. tube at 20° C.	Equivalent Lemon Oil.	Citral.	Alcohol by Volume.	Refractive Index of Oil.		

Concluded.

			p. c.	p. c.	p. c.			
Gagnon & Garent. Seal Brand Lemon Extract Mixture.	0.9627	0.1	.....	0.01	32.42	.....	2779	Sold as a mixture.
Herron, Leblanc. Red Cross Extract Lemon Mixture.	0.9897	0.0	.....	0.02	15.58	.....	2782	
Hamilton Chem. Works. Lemon Extract.	0.9639	0.0	.....	0.04	31.48	.....	2785	Citral low. Adulterated.
Golden Star Brand Extract. Double Strength Lemon.	0.9741	0.0	.....	0.00	22.09	.....	2793	Adulterated.

DR. V. P. LAVALLEE, INSPECTOR.

Lemon Mixture.....	0.8860	6.5	2.0	0.12	71.22	.....	69122	Sold as a mixture. Contains 2 p.p. lemon oil and 0.12 citral.
Lemon Extract.....	0.9730	0.0	.....	0.06	23.10	.....	69123	Adulterated.
Pure Fruit Extract Lemon.	0.8960	6.4	1.8	0.20	67.53	1.4740	69137	Genotype, with 1.8 p.p. lemon oil.	
Lemon Extract.....	0.8725	8.0	2.6	0.08	76.76	1.4736	69138	Citral low. Adulterated. Contains 2.6 p.p. lemon oil.	
Mixture.....	0.8745	8.0	2.4	0.08	75.90	1.4725	69141	Sold as a mixture. Contains 2.4 p.p. lemon oil.	
.....	0.9034	0.5	Is cherry extract.....				69142	Coloured by mixtures.	
.....	Is extract of peppermint.				69143			
Artificial.....	0.9709	0.0	.....	0.04	25.17	.....	69151	Sold as artificial.
Lemon Mixture.....	0.9717	0.6	0.18	None	24.28	.....	69152	Sold as a mixture.
Lemon Extract.....	0.8730	7.8	2.3	0.08	76.24	.....	69153	Citral low. Adulterated (although contains 2.3 p.p. lemon oil).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF EASTERN TOWNSHIPS—

1915.								
Aug. 11	Lemon Flav- ouring Extract.	51390	S. W. Fortier, Sher- brooke.	3 bots.	30	White Cross Mfg. Co., Toronto.	.....	Compound..
" 11	"	51391	A. Boisvert, Sherbrooke..	3 "	30	.....	.....	Bee brand..
" 11	"	51392	G. E. Robitaille, Sher- brooke.	3 "	30	Hamilton Chem. Wks.	.....	Labelled mixture compound.
" 12	"	51393	Farley & Burroughs, Coaticook.	3 "	30	.....	.....	Bee brand..
" 12	"	51394	D. S. Bashand, Coati- cook.	3 "	25	S. H. Ewing & Sons, Mon- treal.	.....	Mixture...
" 17	"	51395	Mercure & Frere, Granby.	3 "	30	Tropical Ex- tract Co., To- ronto.	.....	Artificial...
" 17	"	51396	Beaudry & Beauchemin, Granby.	3 "	30	The Hamilton Chem. Wks.	.....	"
" 18	"	51397	W. Hamel, Magog ...	3 "	30	Integrity Mills, To- ronto.	.....	Mixture....
" 18	"	51398	B. E. Goyette, Magog ...	3 "	75	Litster Pure Food Co.	.....	.....
" 18	"	51399	I. M. Bachelder & Co., Magog.	3 "	45	Davis, Law- rence Co., Montreal.	.....	Royal brand.

DISTRICT OF MONTREAL—

Aug. 25	Lemon Fla- vouring Extract.	67436	J. A. Villeneuve, 195 Ottawa St., Montreal.	3 bots.	30	S. H. Ewing & Sons.	.....	.....
" 26	"	67437	A. Silverstone, 640 St. Catherine St. W., Mon- treal.	3 "	30	Henri Jonas & Co.	.....	.....
" 26	"	67438	H. Russell, 847 St. Cather- ine St. W., Montreal.	3 "	75	McLaren's, Ltd.	.....	.....
" 26	"	67439	Murphy & Riordon, 871 St. Catherine St. W., Montreal.	3 "	30	Holly Packing Co.	.....	.....
" 26	"	67440	J. G. Côté, 887 St. Cather- ine St. W., Montreal.	3 "	75	.....	Mr. Sill- cocks.	.....
" 26	"	67441	W. J. Brown, 888 St. Catherine St. W., Mon- treal.	3 "	75	The Allredie Pure Food Co.	.....	.....
" 26	"	67442	Jas. Graham, 4451 St. Catherine St., West- mount.	3 "	30	Imperial Ex- tract Co.	.....	Sold as mix- ture. Not pure.
" 30	"	67443	G. Greenberg, 1221 Green Ave., Westmount.	3 "	75	L. Silverman.	.....	Sold as com- pound.
Sept. 1	"	67444	Prince Arthur Liquor Grocery, 20 Prince Arthur St. E., Mon- treal.	3 "	75	.....	Unknown.	.....
" 1	"	67445	S. Dever & Son, Prince Arthur St. and Colonial Ave., Montreal.	3 "	25	.....	"	.....

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15.5° C.	Polarization in 2 dm. tube at 20° C.	Equivalent Lemon Oil.	Citral.	Alcohol by Volume.	Refractive Index at 20° C.		

J. J. COSTIGAN, ACTING INSPECTOR.

			p. c.	p. c.	p. c.			
White Cross Manufacturing Co. Compound Lemon.	0.9682	0.0	.....	0.02	27.68	.....	51390	Sold as compound.
.....	0.9708	0.0	.....	0.08	25.27	.....	51391	" mixture.
Hamilton Chemical Wks. Tropical Compound Extract Lemon.	0.9669	0.0	.....	0.06	28.86	.....	51392	" compound.
Mixture, "Bee Brand" Lemon Extract.	0.9706	0.0	.....	0.08	25.47	.....	51393	" mixture.
S. H. Ewing & Son. Lemon Mixture Flavouring Extract.	0.9668	0.0	.....	0.06	28.95	.....	51394	" "
Tropical Extract Co. "Eagle Brand" Artificial Flavouring Ess., coloured.	0.9638	0.0	.....	0.06	31.57	.....	51395	" artificial.
Hamilton Chemical Wks. Prime Extract Lemon. Artificial.	0.9668	0.0	.....	0.08	28.95	.....	51396	" "
Integrity Mills. Lemon Extract Mixture.	0.9694	0.0	.....	0.08	26.58	.....	51397	" mixture.
Litster Pure Food Co. Lemon Extract.	0.9329	+ 0.1	.....	0.11	50.87	.....	51398	Too low in citral.
Davis, Lawrence. Royal Extract Lemon.	0.9171	0.0	.....	0.20	58.32	.....	51399	Genuine.

D. J. KEARNEY, INSPECTOR.

S. H. Ewing & Son. Club Lemon Extract.	0.9741	- 0.2	.....	0.02	22.09	.....	67436	Too low in citral. Adulterated.
Henri Jonas Co. Extract Lemon. Mixture.	0.8807	+ 6.9	2.2	0.12	73.65	147.30	67437	Sold as mixture.
McLaren's Ltd. Invin- cible True Lemon.	0.9396	+ 0.2	.....	0.16	47.35	.....	67438	Genuine.
Holly Packing Co. Artificial Coloured Compound. Concentrated Extract Lemon.	0.9714	- 0.1	.....	0.06	24.68	.....	67439	Sold as artificial.
Shurff's Imperial Quint Essence True Lemon.	0.9210	+ 1.1	.....	0.20	56.54	.....	67440	Genuine.
Allredie P. E. Co. "Allredie Brand" Lemon Extract.	0.9501	+ 0.1	.....	0.05	41.26	.....	67441	Citral too low. Adulterated.
Imperial Extract Co. Our 1880 Mixture Lemon.	0.9827	0.0	.....	0.06	13.71	.....	67442	Sold as mixture.
Silverman's Compound Lemon.	0.9704	+ 0.2	.....	0.30	25.67	.....	67443	Sold as compound contains 0.20 p. c. citral.
McLaren's "Dew Drop" Extract Lemon. Mfg. H. C. & S. Co., Ltd.	0.9475	0.0	.....	0.05	42.67	.....	67444	Citral too low. Adulterated.
I. E. C. Our 1880 Sol- uble Extract Lemon.	0.9760	0.0	.....	0.04	20.24	.....	67445	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VALLEYFIELD—

1915.								
July 15	Lemon Flavouring Extract.	58186	Victor Gregoir, St. Charles St., St. Johns.	3 bots.	30	Integrity Mills, Toronto.	.....	Labelled Artificial.
" 15	"	58187	" " "	3 "	30	Henri Jonas Co., Montreal.	.....	Mixture stencilled on label.
" 15	"	58188	M. A. Comtois, St. Charles St., St. Johns.	3 "	30	"	.....	"
" 15	"	58189	Joseph Chartier, Market Place, St. Johns.	3 "	60	"	.....	Triple concentrated.
" 15	"	58190	J. E. Lariviere & Co., St. Jacques St., St. Johns.	3 "	30	Herron Leblanc, Ltd.	.....	Labelled Mixture.
" 20	"	58191	W. J. McPherson, Cecil St., Valleyfield.	3 "	60	Pure Gold Co., Ltd., Toronto.	.....	Labelled Govt. Standard.
" 20	"	58192	" " "	3 "	60	F. F. Dalley Co., Ltd., Hamilton.	.....	.....
" 21	"	58193	J. A. Tremblay & Cie., Victoria St., St. Lambert.	3 "	30	.....	.....	Labelled Mixture.
" 21	"	58194	E. Beauchamp, Front St., St. Lambert.	3 "	30	Holly Packing Co., Montreal.	.....	Labelled Compound.
" 22	"	58195	D. Seward, Main St., Hawkesbury.	3 "	30	Birks Corner Co., Montreal.	.....	Labelled Artificially Coloured.

DISTRICT OF OTTAWA—

July 12	Lemon Flavouring Extract.	63659	E. Carpenter, Mille Roches.	3 bots.	30	Vendor .....	.....	Labelled Lemon Quality Extracts.
" 13	"	63660	Wm. Jenkins, Carleton Place.	3 "	75	Shirriff's, Toronto.	Mrs.	Labelled Imperial Quintessence True Lemon.
" 13	"	63661	Thos. Stevens, Carleton Place.	3 "	30	N. C. Polson & Co., Kingston.	"	Labelled Perfection Brand Pure.
" 13	"	63662	" " "	3 "	75	Pure Gold Mfg. Co., Toronto.	"	Pure Gold.

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label	Results of Analysis						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific gravity at 15° C.	Polarization in 2 dm. tube at 20° C.	Citral.	Separated Lemon Oil.	Refractive Index.	Alcohol by volume.		

J. J. COSTIGAN, ACTING INSPECTOR.

			p. c.	p. c.		p. c.		
Integrity Mills. Artificial Coloured Lemon Extract.	0.9705	0.0	0.05	....	....	25.57	.....	58186 Sold as artificial.
H. Jonas & Co., Triple Concentrated Extract Lemon Mixture.	0.8809	+ 7.8	0.08	2.41	4739	73.57	.....	58187 Sold as mixture.
H. Jonas & Co., Ex. Lemon Mixture.	0.8775	+ 8.0	0.07	2.41	4735	74.89	.....	58188
Henri Jonas Co., Jonas Triple Concentrated Lemon Extract.	0.8746	+ 8.0	0.10	2.71	4739	75.98	.....	58189 Citral too low
Herron Leblanc, Ltd. Lemon Mixture. Red Cross.	0.9816	0.0	0.04	....	....	14.74	.....	58190 Sold as mixture.
Pure Gold Co., Standard Ext. Lemon.	0.8937	0.0	0.18	....	....	68.44	.....	58191 Genuine.
F. F. Dalley Co., Lemon Pure Fruit Extract.	0.8459	+ 11.4	0.16	3.61	4739	86.32	.....	58192
Lemon Ext. Mixture ...	0.9775	0.0	0.04	....	....	18.78	.....	58193 Sold as mixture.
Holby Pack Co., Concentrated Ext. Lemon Compound.	0.9716	0.0	0.08	....	....	24.48	.....	58194 compound.
Mixture. ...	0.9717	0.0	0.04	....	....	24.38	.....	58195 mixture.

J. A. RICEY, INSPECTOR.

Carpenter. Lemon Quality Extract.	0.9801	0.0	0.4	....	....	16.15	.....	63659 Citral low. Adulterated.
Shiriffs Imp. Quintessence True Lemon.	0.9490	0.0	0.10	....	....	41.84	.....	63660 Citral below standard
N. C. Polson & Co., Perfection Brand Pure Conc. Flav. Extract Lemon.	0.9048	+ 16.2	0.02	18.59	63661 Citral low. Adulterated.
Pure Gold Co. Pure Gold Lemon Ext.	0.9370	+ 0.2	0.17	48.75	63662 Genuine

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BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1915.								
July 16	Lemon Flavouring Extract.	63663	G. A. Ellis, Renfrew . . .	3 bots.	30	Integrity Mills, Toronto.	Mfrs. . . .	World Brand
" 16	"	63664	P. J. Campbell, Renfrew .	3 "	75	Gorman, Eckert & Co., Ltd., London, Ont.	"	Double Strength Pure.
" 16	"	63665	H. Brydge, Renfrew . . .	3 "	30	The J. M. Lowes Co., Ltd., Toronto.	"	Monarch Concentrated True Fruit Flavour. Extract.
" 24	"	63666	T. F. Dextras, Cornwall .	3 "	30	Gorman, Eckert & Co., Ltd., London, Ont.	.....	Oriental . . .
" 24	"	63667	D. J. Gillies, Cornwall . .	3 "	75	The F. F. Dalley Co., Ltd., Hamilton.	.....	Guaranteed Pure.
" 26	"	63668	Wm. F. Nesbitt, Britannia Bay.	3 "	30	L. Crossman, Ottawa.	.....	Our 1910 Pure Concentrated Extract of Lemon.
Aug. 7	"	63671	P. A. Gagne, South Indian.	3 "	30	Northop & Lyman Co., Ltd., Toronto.	.....	.....
" 7	"	63673	Stephen Pilon, Rockland.	3 "	75	International Food Co., Toronto.	.....	Reliance . . .

DISTRICT OF KINGSTON—

July 29	Lemon Flavouring Extract.	70231	N. C. Polson & Co., Kingston.	3 bots.	30	Vendors . . . .	.....	.....
Aug. 2	"	70232	H. C. Hampton, Belleville.	3 "	30	... ..	R. Fenn & Co.	This sample was in stock when vendor bought the business.

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific gravity at 15.5 C.	Polarization in 2 dm. tube at 20 C.	Citral.	Separated Lemon Oil.	Refractive Index.	Alcohol by volume.		
<i>Concluded</i>								
			p. c.	p. c.		p. c.		
Lemon Extract	0.9702	0.0	0.05	.....	.....	25.86	.....	63663 Citral too low. Adulterated.
Gorman, Eckert Co. Lemon Ext.	0.9352	0.0	0.16	.....	.....	49.71	.....	63664 Genuine.
J. M. Lowes Co. Lemon Concentrated. "Monarch."	0.9732	0.0	0.06	.....	.....	22.92	.....	63665 Citral too low. Adulterated.
Gorman Eckert Co. Oriental Lemon Flav. Ext.	0.9599	0.0	0.05	.....	.....	34.61	.....	63666 " "
Dalley's Pure Fruit Extract Lemon.	0.8506	10.8	0.15	3.6	1.4720	84.74	.....	63667 Genuine.
L. Crossman. Concentrated Ext. Lemon.	0.9753	0.0	0.04	.....	.....	20.89	.....	63668 Citral too low. Adulterated.
Northrop & Lyman. Red Seal Brand Lemon Extract.	0.9387	0.0	0.18	.....	.....	47.83	.....	63671 Genuine.
Lemon Extract	0.8952	5.6	0.16	1.5	1.4739	67.85	.....	63673

JAMES HOGAN, INSPECTOR.

	Specific Gravity at 15.5° C.	Polarization in 2 dm. tube at 20° C.	Alcohol by Volume.	Citral.	Equivalent Lemon Oil.	Refractive Index of Oil.		
N. C. Polson Co. Perfection Brand. Artificial Lemon.	0.9731	+34.4	p. c.	p. c.	p. c.	1.4710	70280	Sold as artificial
R. Fenn & Son. Special Flavouring Extract Lemon.	0.9800	0.0	10.24	0.06			70282	Citral too low. Adulterated

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BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF KINGSTON—								
1915.								
Aug. 2	Lemon Flavouring Extract.	70233	S. R. Artis, Belleville....	3 bots.	30	Vendor		
" 2	"	70234	R. Elvins, Belleville.....	3 "	30			
" 3	"	70235	S. P. Harvey & Sons, Cobourg.	3 "	75	McLaren's, Hamilton.		
" 3	"	70236	W. Burnet, Cobourg.....	3 "	75	"		
" 3	"	70237	Thompson, Macdonald, Cobourg.	3 "	25	Gorman, Eckert Co., London.		
" 3	"	70238	Sam Sleeman, Port Hope.	3 "	30	White Swan, Toronto.		
" 3	"	70239	F. Rosevear, Port Hope..	3 "	30	Vendor.....		
" 3	"	70240	F. H. Brown, Port Hope.	3 "	30	Tropical Extract, Toronto.		
DISTRICT OF TORONTO—								
Aug. 8	Extract of Lemon.	70084	David Bell, 1364 Bathurst St., Toronto.	3 bots.	75	Pure Gold Mfg. Co., Toronto.		
" 10	"	70085	W. Massen, 1346 St. Clair Ave., Toronto.	3 "	15		Unknown.	Star brand..
" 10	"	70086	F. Kelsey, 1738 St. Clair Ave., Toronto.	3 "	15		"	
" 11	"	70087	T. R. Franklin, 165 Danforth Ave., Toronto.	3 "	75	Imperial Extract Co., Toronto.		Shirriff's Imperial Quintessence true lemon.
" 12	"	70088	The T. Eaton Co., Ltd., Queen and Yonge Sts., Toronto.	3 "	45	G. F. Sutton Sons, London, Eng.		Labelled essence of lemon.
" 13	"	70089	Conway & Co., 1995 Dundas St., Toronto.	3 "	30	Eby, Blain, Ltd., Toronto.		Anchor brand.
" 16	"	70090	Mead's Grocery, 806 College St., Toronto.	3 "	75	McLaren's, Hamilton.		McLaren Invincible.
" 17	"	70091	W. J. Snell, 2165 Queen St. E., Toronto.	3 "	75	Pure Gold Mfg. Co., Ltd., Toronto.		
" 17	"	70092	W. Black, 1960 Queen St. E., Toronto.	3 "	60	"		
" 18	"	70093	W. Forster, 177 Roncesville Ave., Toronto.	2 "	20	Integrity Mills, Toronto.		Integrity World brand. Double strength.

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15.5° C.	Polarization in 2 dm. Tube at 20° C.	Alcohol by Volume.	Citral.	Separated Oil.	Refractive Index.			
<i>Concluded.</i>									
S. R. Artis. Maple Leaf Artificial Lemon.	0.9774	0.0	18.88	0.10				70233	Sold as artificial.
J. M. Lowes Co. Monarch Compound Flavouring Ext. Lemon.	0.9677	0.0	28.13	0.08				70234	compound
True Lemon Extract.	0.9453	0.0	44.00	0.10				70235	Citral low.
McLaren's True Lemon.	0.9493	0.0	41.69	0.10				70236	
Forest City Lemon Extract Mixture.	0.9648	0.0	30.73	0.20				70237	Sold as mixture. Contains 0.20 p.c. citral.
Lemon Mixture	0.9775	0.0	18.78	0.10				70238	Sold as mixture.
F. Rosevear. Maple Leaf Artificial Ext. Lemon	0.9758	0.1	18.48	0.10				70239	artificial.
Tropical Extract Co. Oriental Artificial Coloured Lemon Extract Mixture.	0.9653	0.0	30.31	0.06				70240	
H. J. DAGER, INSPECTOR.									
Pure Gold Govt. Stand and Lemon Extract.	0.8937	0.4	68.44	0.15				70081	Genuine
Star Brand Lemon Flavouring Extract.	0.9819	0.6	14.46	0.06				70085	Citral too low. Adulterated.
Strongest Flavouring Extract Lemon.	0.9783	2.3	17.92	0.05				70086	
Shirriff's Imperial Quint Essence True Lemon.	0.9214	0.9	60.34	0.18				70087	Genuine.
G. F. Sutton & Son Co. Essence of Lemon.	0.9373	0.5	48.59	0.11				70088	Citral too low.
Eby, Blain, Ltd. Finest Quality "Anchor Brand" Lemon Extract.	0.9029	2.1	61.84	0.25				70089	Genuine
M. Laren's Invincible True Lemon	0.9466	0.0	43.19	0.14				70090	Citral in low amount.
Pure Gold Mfg. Co. Pure Gold Extract Lemon.	0.9402	0.2	47.02	0.19				70091	Genuine
Pure Gold Mfg. Co. Pure Gold Extract Lemon.	0.9411	0.2	46.50	0.16				70092	
Double Strength Lemon Extract.	0.9020	0.0	20.95	0.09				70093	Citral too low. Adulterated.

7 GEORGE V, A. 1917

BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON—

1915.								
July	21	Extract of Lemon.	70021 A. R. Phipps, 78 Queenston St., St. Catharines.	3 bots.	30	Vendor		Labelled Our Leader, Mfg. expressly for vendor.
"	22	"	70023 E. Gander, King and Queen Sts., St. Catharines.	3 " "	75	F. F. Dalley, Co., Hamilton.		
"	22	"	70024 L. McMann, Thorold...	3 " "	30	Balfour Smye & Co., Hamilton.		Tartan Brand.
"	23	"	70025 John Muir, 29 Queen St., Niagara Falls.	3 " "	75	Imperial Extract Co., Ltd., Toronto.		Shirrif's Imperial Quintessence True.
"	23	"	70026 O. E. Dore, 41 Queen St., Niagara Falls.	3 " "	15	Gorman Eckert Co., Ltd., London.		Pure Concentrated.
"	23	"	70027 Extence & Norton, Bolton	3 " "	30	Vendors,		
Aug.	3	"	70028 Deeves & Co., Brampton.	3 " "	30	"		Labelled Maple Leaf.
"	4	"	70029 McKay Bros., Georgetown.	3 " "	60	Tropical Extract Co., Toronto.		Labelled Imperial. Prepared by Tropical Extract Co., Toronto.
"	5	"	70030 The F. F. Dalley Co., Ltd., 71 Hughson St., Hamilton.	3 " "	45	Vendors.. . . .		
"	5	"	70034 Imperial Spice Co., Ltd., 33 McNabb St., N., Hamilton.	3 " "	25	"		Red Feather
"	5	"	70035 McLaren's, Ltd., Park and Merrick Sts., Hamilton.	3 " "	30	"		Invincible...
"	5	"	70062 Young Windfield Ltd., 87 Cannon St., W., Hamilton.	3 " "	20	"		Young's Improved.

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific gravity at 15-16° C.	Polarization in 2 in. tube at 20° C.	Alcohol by volume.	Citral.	Separated Oil.	Refractive Index.		

H. J. DAGER, ACTING INSPECTOR.

A. R. Phipps, Our Leader Pure Extract Lemon.	0.9731	+ 0.1	23.01	p.c. 0.06	p.c. ...	...	70021	Citral low. Adulterated.
Dalley's Pure Fruit Extracts Lemon.	0.8527	+ 11.7	84.04	0.15	3.5	1.4740	70023	Genuine.
Balfour Snipe Co. Pure Lemon Flav. Extract.	0.9649	0.0	30.65	0.14	...	...	70024	Citral below standard.
Shirriff's Imperial Quintessence True Lemon.	0.9358	+ 0.2	49.40	0.16	...	...	70025	Genuine.
Pure Concentrated Extract Lemon.	0.9688	0.0	27.13	0.06	...	...	70026	Citral low. Adulterated.
Extence & Norton. Lemon Flav. Extract.	0.9727	- 0.2	23.38	0.14	...	...	70027	Citral below standard.
Deeves & Co. Maple Leaf Flav. Ext. Lemon.	0.9792	0.0	16.98	0.02	...	...	70028	Citral low. Adulterated.
Tropical Ext. Co. Imperial Flav. Ext. Lemon.	0.9469	- 0.1	43.01	0.08	...	...	70029	...
Dalley's Pure Fruit Extract Lemon.	0.8482	+ 11.4	85.53	0.15	4.0	1.4726	70030	Genuine.
Imp. Spice Co., Ltd. Red Feather Quality Lemon Ext.	0.9305	0.0	47.40	0.25	...	...	70034	...
Guaranteed a higher grade than Govt Standard. McLaren, Ltd. Invincible True Lemon. This is the highest grade of extract made.	0.9411	+ 0.2	46.07	0.16	...	...	70035	...
Young Winfield Improved Extract Lemon	0.9286	- 0.3	83.01	0.11	...	...	70037	Citral low.

7 GEORGE V, A. 1917

BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR—

1915.								
Aug. 2	Lemon Flavouring Extract.	54632	J. A. Kelly, Lambeth....	3 bots.	30	I. X. L. Spice Co., London		Honey Drip
" 2	"	54634	G. T. Carley, Lambeth...	3 " "	30	"		Lemon Artificial Sweetheart Brand.
" 2	"	54635	Earle & Son, Lambeth...	3 " "	30	E. Adams Co., London.		Fan Brand, Artificial.
" 4	"	54636	Willis & Co., London....	3 " "	30	Vendors.....		Willis Own Fruit Flav. Extract Mixture.
" 4	"	54637	Blinn Bros., London....	3 " "	30	M. Masurett & Co., London.		Eagle.....
" 4	"	54638	Dan Carter, London.....	3 " "	75	Shirriff's, Toronto.		Shirriff's Imperial Quintessence.
" 4	"	54640	R. W. Janes, London...	3 " "	30	White Cross Mfg. Co., Toronto.		White Cross Pure.
" 13	"	54667	Butler Bros., St. Thomas	3 " "	25	Gorman Eckert Co., Toronto.		Artificial....
" 13	"	54671	W. E. Ross, St. Thomas.	3 " "	45	Imperial Extract Co., Toronto.		Eclipse.....

DISTRICT OF MANITOBA—

Aug. 18	Lemon Flavouring Extract.	61345	Sutherland & Robertson, 136 Tenth St., Brandon.	3 bots.	75	McLaren's Ltd., Hamilton.		
" 18	"	61354	The A. I. Grocery, 416 Tenth St., Brandon.	3 " "	75	Codville Co., Winnipeg.		
" 18	"	61355	W. J. Younges, 1013 Rosser Ave., Brandon.	3 " "	75	Imperial Ext. Co., Toronto.		
" 18	"	61358	Smith & Burton, Brandon.	3 " "	75	Vendors.....		

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15.5° C.	Polarization in 2 dm. tube at 20° C.	Alcohol by Volume.	Citral.	Separated Oil.	Refractive Index.		

JOHN TALBOT, INSPECTOR.

			p. c.	p. c.	p. c.			
.....	Is a Syrup.	.....	.....	.....	.....	.....	54632	Not lemon Extract. Collected by mistake.
I. X. L. Spice & Coffee Co. Sweetheart Brand. Lemon Ext. Artificial.	0.9776	0.0	18.68	0.06	.....	.....	54634	Sold as artificial.
Ed. Adam & Co. Artificial ext. Lemon. Coloured.	0.9869	+ 0.1	9.95	0.11	.....	.....	54635	" "
Willis & Co. Lemon Mixture.	0.9644	0.0	31.07	0.06	.....	.....	54636	" mixture.
M. Masuret & Co. Lemon Extract.	0.9761	+ 0.1	20.15	0.03	.....	.....	54637	Citral low. Adult-erated.
Shirriff's Imp. Quintessence True Lemon.	0.9217	+ 0.9	56.21	0.21	.....	.....	54638	Genuine.
White Cross Mfg. Co. Lemon Ext.	0.9732	0.0	22.92	0.04	.....	.....	54640	Citral low. Adult-erated.
Gorman, Eckert & Co. Artificial Lemon Flav. Ext.	0.9746	- 0.1	22.18	0.16	.....	.....	54667	Sold as artificial. Contains 0.16 citral.
Imperial Ext. Co. Lemon Pure Eclipse.	0.9421	0.0	45.77	0.08	.....	.....	54671	Citral low. Adult-erated.

J. B. COSGROVE, TEMPORARY INSPECTOR.

	Specific Gravity at 15.5° C.	Rotation 2 dm. tube at 20° C.	Lemon Oil Cal-culated.	No. Gr. of Dis-solved Vol. at 15° C.	Alcohol by Volume.	Citral.		
McLaren's Invincible True Lemon.	0.9322	1.0	p. c. 0.31	0.339	p. c. 47.23	p. c. 0.20	54645	Genuine.
Gold Stand. Mfg. Co. Lemon artificially col-oured.	0.8501	20.0	6.23	8.881	82.16	0.22	glycerine present.	61334
Shirriff's Imperial Quintessence True Lemon.	0.9370	1.0	0.31	0.351	49.76	0.18	.....	61350
Smith & Burton. Ex-tract Lemon.	0.9642	1.0	0.31	0.964	29.31	0.10	.....	61356 Citral low.

7 GEORGE V, A. 1917

BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1915.								
Aug. 18	Lemon Flavouring Extract.	61359	McDonald & Foreman, 829 Princess Ave., Brandon.	3 bots.	75	Gold Standard Mfg. Co., Winnipeg.		
" 20	"	61360	W. & D. Mayrs, 1056 Main St., Winnipeg.	3 "	75	Dyson Co., Winnipeg.		
" 20	"	61361	J. R. Royle, 1116 Main St., Winnipeg.	3 "	75	McLaren's, Ltd., Hamilton.		
" 20	"	61362	St. John's Grocery, 1238 Main St., Winnipeg.	3 "	75	Codville Co., Winnipeg.		
" 20	"	61363	Wilton & Conley, 1352 Main St., Winnipeg.	3 "	75	Blue Ribbon Co., Winnipeg.		
" 20	"	61364	W. H. Stone Co., 14103 Main St., Winnipeg.	" "	75	"		

DISTRICT OF SASKATCHEWAN—

July 20	Lemon Flavouring Extract.	66404	W. McLeod, Melville....	3 bots.	60	Pure Gold Mfg. Co., Toronto.		Pure Gold brand.
" 20	"	66405	A. W. Gunn & Co., Melville.	3 "	60	Campbell Bros. & Wilson, Winnipeg.		Royal Shield brand.
" 20	"	66406	J. D. Miller & Sons, Melville.	3 "	45	Gorman, Eckert & Co., London.		Jewel brand.
" 20	"	66407	Love & Waldman, Melville.	3 "	40	Unknown	Campbell Bros. & Wilson, Winnipeg.	
" 20	"	69408	M. Bay Company, Melville.	3 "	45	Gt. West Spice Mills, Winnipeg.	"	Baker's
" 21	"	66409	Hudson's Bay Co., Yorkton.	3 "	60	Vendors.....		
" 21	"	66413	Levi Beck, Yorkton....	3 "	75	Tropical Extract Co., Toronto.		Eagle brand.
" 22	"	66415	J. F. Cairns, Saskatoon..	3 "	75	Imperial Spice Co., Hamilton.	Mfr	Red Feather brand.
" 23	"	66422	Nicholls & Laidlay, Saskatoon.	3 "	45	White Star Mfg. Co., Winnipeg.		White Star brand.
" 23	"	66424	A. McDonald Co., Saskatoon.	3 "	50	Imperial Ex Co., Toronto.		Shirriff's....

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific Gravity at 15° C.	Rotation 2 dm. Tube at 20° C.	Lemon Oil Calculated.	Sp. Gr. of Distillate to Vol. at 15° C.	Alcohol by Volume.	Citral.		

Concluded.

			p. c.		p. c.	p. c.			
Gold Standard Mfg. Co. Gold Standard Lemon.	0·8510	20·0	6·25	0·8581	82·16	0·22	Glycerine present.	61359	Genuine.
Dyson Co. Red Cross Lemon.	0·8544	16·0	5·00	0·8679	78·47	0·19	.....	61360	"
McLaren's Invincible True Lemon Extract.	0·9474	2·0	0·62	0·9453	44·0	0·10	.....	61361	Citral low.
Gold Standard Mfg. Co. Gold Standard Lemon.	0·8522	20·0	6·25	0·8581	82·16	0·22	Glycerine present.	61362	Genuine.
Blue Ribbon Co. True Lemon Extract.	0·9330	1·0	0·31	0·9334	50·62	0·28	.....	61363	"
Blue Ribbon Co. True Lemon Extract.	0·9367	1·0	0·31	0·9374	48·54	0·23	.....	61364	"

L. H. HALL, TEMPORARY INSPECTOR.

Pure Gold Mfg. Co. Govt. Standard Pure Gold Flavouring Extract Lemon.	0·8906	1·2	0·38	0·8916	69·26	0·20	.....	66404	Genuine.
Campbell Bros. & Wilson. Royal Shield Brand Flavouring Extract Lemon.	0·9114	38·0	2·50	0·8922	69·03	0·19	Cane sugar 7·78 p.c.	66405	"
Gorman, Eckert & Co. "Jewel" Lemon Extract. Artificial.	0·9750	3·0	0·94	0·9729	23·19	0·15	.....	66406	Sold as artificial. Contains 0·12 p.c. citral.
The Best Lemon Flavouring Extract.	1·0149	46·0	0·31	0·9672	28·59	0·26	Cane sugar 12·80 p.c.	66407	Genuine.
The Great West Spice Mill. Baker's Extract Lemon. Artificial.	0·9628	2·0	0·62	0·9805	15·77	0·10	.....	66408	Sold as artificial. Contains 0·10 p.c. citral.
Hudson's Bay Co. Pure Flavouring Extract Lemon.	0·9269	1·4	0·44	0·9367	48·91	0·20	.....	66409	Genuine.
Tropical Extract Co. Eagle Brand Lemon Mixture.	0·9634	1·0	0·31	0·9695	34·25	0·10	.....	66410	Sold as a mixture. Contains 0·10 p.c. citral.
Imperial Spice Co. Red Feather Quality Flavouring Ext Lemon.	0·9391	1·0	0·31	0·9374	48·54	0·25	.....	66411	Genuine.
White Star Mfg Co. White Star Flavouring Extract Lemon.	0·8915	5·0	1·50	0·8865	71·28	0·27	.....	66412	"
Sherrill's Imperial Quintessence True Lemon.	0·9330	2·0	0·62	0·9841	50·16	0·20	.....	66413	"

7 GEORGE V, A. 1917
BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ALBERTA—

1915.								
Aug. 11	Lemon Flavouring Extract.	52236	J. H. Morris & Co., Edmonton.	3 bts.	75	Pure Gold Mfg Co., Toronto	.....	Pure Go ..
" 11	"	52237	Hallier & Aldridge, Edmonton.	3 "	60	McLaren's....	.....	Invisible....
" 11	"	52238	" "	3 "	1.00	Jas. Turner & Co.	.....	.....
" 11	"	52239	Johnston-Walker, Ltd., Edmonton.	3 "	60	Revillion Wholesale Ltd., Ed'n.	.....	Molliver Brand.
" 12	"	52240	Banner Grocery, Wetaskiwin.	3 "	75	Alberta Express Co., Ltd. Calgary	.....	Alberta's Best.
" 12	"	52241	Lake & Co., Wetaskiwin..	3 "	75	Pure Gold Mfg Co., Toronto	.....	.....
" 13	"	52242	R. G. Gilmour, Lacombe.	3 "	75	Campbell Bros & Wilson, Winnipeg.	.....	Royal Shield
" 16	"	52243	The John Irwin Co., Calgary.	3 "	75	Georgeson & Co., Ltd., Calgary.	.....	Tuxedo Brand
" 19	"	52244	Pryce-Jones (Canada) Ltd. Calgary.	3 "	1.05	Seeley's, Windsor, Ont.	.....	.....
" 19	"	52245	" "	3 "	75	Imperial Extract Co., Toronto.	.....	Shiriff's Supreme Quality.

DISTRICT OF ROCKY MOUNTAINS—

July 20	Lemon Extract.	61844	Trail Grocery Co., Trail..	3 bts.	75	F. F. Dalley Co., Hamilton.	.....	.....
" 20	Lemon Flavouring Essence.	61845	" "	3 "	1.35	W. A. Jameson Coffee Co., Victoria.	.....	.....
" 20	Lemon Extract.	61849	T. Lauriente & Son, Trail	3 "	75	W. H. Malkin Co., Vancouver.	.....	.....
" 20	"	61855	Hunter Bros., Rossland ..	3 "	60	Empress Mfg. Co., Vancouver.	.....	.....
" 20	"	61856	" "	3 "	1.20	Kelley Douglas, Vancouver	.....	Nabob.....
" 20	Lemon Flavouring Extract.	61857	Agnew & Co., Rossland...	3 "	60	" .....	.....	Columbia Mixture

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Specific gravity at 20° C.	Rotation in 2 dm. tube at 20° C.	Lemon Oil.	Alcohol by volume.	Citral.	Refractive Index of oil at 20° C.		

A. W. R. MARKLEY, INSPECTOR.

			p. c.	p. c.	p. c.			
Pure Gold Mfg. Co. Pure Gold Flavouring Extract Lemon.	0.8906	+ 0.8	0.20	64.73	0.16	...	52239	Genuine
McLaren's Invincible "True Lemon".	0.9436	0.0	trace.	42.96	0.14	.....	52237	Citral below stand. arl.
Jas. Turner & Co. Triangel Lemon.	0.9348	0.0	"	48.32	0.18	.....	52238	Genuine.
Revillon Ltd. Lemon Molliver Brand.	0.9368	+ 0.8	0.10	42.50	0.15	.....	52239	"
Alberta Empress Co. Flavouring Extract Lemon.	0.9524	0.0	trace.	37.60	0.12	.....	52240	Low in citral.
Pure Gold Mfg. Co. Pure and Lemon Flavouring Extract.	0.8920	0.0	"	67.80	0.14	.....	52241	Citral below stand. arl.
Campbell Bros. & Wilson. Royal Shield Brand. Lemon Flav. Extract.	0.9053	+ 36.6	2.90	67.00	0.12	1.4740	52242	Low in citral.
Georgeson Co. Limited. Tuxedo Lemon Flavouring Extract.	0.8267	+ 14.8	3.80	83.25	0.21	1.4742	52243	Genuine.
Seeley's Extra Concentrated Lemon.	0.9000	+ 14.7	1.50	62.50	0.11	1.4743	52244	Citral low.
Sherriff's Supreme Quality Lemon. Imperial Extract Co.	0.9349	+ 0.6	0.20	45.65	0.18	.....	52245	Genuine.

THOS. PARKER, INSPECTOR

F. F. Dalley & Co. Pure Fruit Lemon Extract.	0.8157	+ 10.3	3.70	78.50	0.14	1.4740	61841	Citral below stand. arl.
Jameson's Flavouring Essence Lemon	0.9234	0.0	trace.	54.52	0.30	.....	61842	Genuine.
Malkins best finest quality. Flavouring Extract.	0.8052	+ 12.0	3.70	72.00	0.23	1.4742	61843	"
Empress Mfg. Co. Lemon Brand Lemon Extract.	0.9464	0.0	trace.	42.52	0.12	.....	61845	Citral low.
Naboh Brand. Flavouring Extract Lemon	0.8810	+ 4.8	1.70	72.75	0.15	1.4743	61856	Genuine.
Columbia Powder Mixture Lemon Extract.	0.9682	0.0	0.00	25.68	0.03	.....	61857	Sold as mixture

7 GEORGE V, A. 1917

BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ROCKY MOUNTAINS—

1915.								
July	20	Artificial Lemon Extract.	61858 Agnew & Co. Rossland...	3 bots.	60	Hamilton Chem. Works Hamilton.		Oak Leaf....
"	20	Lemon Extract.	61859 " " ...	3 "	60	Wilson Bros. Victoria.		Diamond W.
Aug.	6	Lemon Flavouring Extract.	61862 The O'Kanagan Grocery, Vernon.	3 "	30	Tropical Extract Co., Toronto.		Eagle.
"	6	Lemon Extract.	61865 W. R. Megaro, Vernon...	3 "	1.30	Climax Extract Co., Vancouver.		

DISTRICT OF VANCOUVER—

July	15	Lemon Flavouring Extract.	55310 D. McGregor, Bute and Pender St., Vancouver.	3 bots.	30	Sterling Extract Co., Vancouver.		Sold as imitation.
"	15	"	55311 W. Couling, 1374 Pender St., Vancouver.	3 "	45	W. Braid & Co., Vancouver.		Big Four Brand. Sold as imitation.
"	15	"	55312 Almas Grocery, Robson and Richards Sts., Vancouver.	3 "	30	Pure Fruit Extract Co., Vancouver.		Sold as a mixture.
"	15	"	55313 The Home Grocery Co., Robson and Homer St, Vancouver.	3 "	30	Empress Mfg. Co., Vancouver.		Climax Brand. Sold as a mixture.
"	15	"	55314 " " " "	3 "	60	" " " "		Empress Brand.
"	15	"	55315 L. Havird, 300 Dunsuir St., Vancouver	3 "	30	" " " "	Nelson, Shakespear, Watkins, Ltd., Vancouver.	Quakers Brand. Sold as a compound
"	16	"	55316 Slater Bros., 126 Hastings St., W., Vancouver.	3 "	30	Kelly, Douglas & Co., Ltd., Vancouver.		Columbia Brand. Sold as a mixture.
"	16	"	55317 Woodward Dept. Stores, Vancouver.	3 "	75	" " " "		Nabob Brand.
"	16	"	55318 A. & C. Grocery Co., 520 Granville St., Vancouver.	3 "	75	W. Braid & Co., Vancouver.		Braid's Best.
"	16	"	55319 Clover Leaf Butter Store, Nelson & Granville Sts., Vancouver.	3 "	30	Royal Mfg. Co., Vancouver.		Royal Brand. Sold as mixture.

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Specific gravity at 20° C.	Rotation in 2 dm. tube at 20° C.	Lemon Oil.	Alcohol by volume.	Citral.	Refractive Index of oil at 20° C.		

Concluded.

			p. c.	p. c.	p. c.			
Ham. Chemical Works. Oak Leaf Artificial Lemon Extract.	0.9724	0.0	6.00	22.20	0.17	.....	61858	Sold as artificial. Contains 0.17 p. c. citral.
Wilson Bros. Lemon Diamond Fla. Extract Compound, coloured, extra concentrated.	0.9618	0.0	0.00	34.76	0.10	.....	61859	Sold as compound.
Trop. Extract Co. Eagle Quintessence Lemon Extract.	0.9638	0.0	0.00	29.64	0.09	.....	61862	Citral low. Adulterated.
No Label.....	0.9751	0.0	0.00	19.88	0.02	.....	61865	"

E. J. MORGAN, INSPECTOR.

Sterling Ext. Co. Lemon. Imitation.	0.9666	0.0	0.00	28.12	0.12	.....	55310	Sold as imitation.
Wm. Braid & Co. Imitation Lemon.	0.9604	0.0	0.00	32.92	0.13	.....	55311	"
Pure Fruit Extract Co. Lemon Mixture.	0.9824	0.0	0.00	14.40	0.03	.....	55312	" mixture.
Empress Mfg. Co. Flav. Mixture. Lemon Clinax.	0.9683	0.0	0.00	26.32	0.10	.....	55313	"
Emp. Mfg. Co. Empress Brand. Lemon Extracts.	0.9599	0.0	0.00	32.00	0.10	.....	55314	Citral low.
Quakeress Brand. Compound Lemon.	0.9585	0.0	0.00	33.08	0.10	.....	55315	Sold as compound.
Columbia Brand. Best Flav. Ext. Mixture.	0.9725	0.0	0.00	22.32	0.05	.....	55316	" mixture.
Lemon Flav. Ext. Na bob Brand.	0.9282	0.0	0.10	48.80	0.18	.....	55317	Genuine.
Wm. Braid & Co. Best Flav. Ext. Lemon.	0.9053	0.1	0.50	57.85	0.10	1.4745	55318	"
Royal Mfg. Co. Royal Flav. Mixture. Lemon.	0.9750	0.0	0.00	19.00	0.03	.....	55319	Sold as mixture.

7 GEORGE V, A. 1917

BULLETIN No. 337—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1915.								
July 19	Lemon Flavouring Extract.	55320	F. W. Walford, 950 Granville St., Vancouver.	3 bots.	75	W. H. Malkin & Co., Vancouver.		Malkin's Best.
" 19	"	55321	City Cash Grocery, 712 Davie St., Vancouver.	3 "	30	Vendor.		Rose Brand. Sold as a mixture Packed specially for Vendor.

DISTRICT OF VICTORIA—

July 21	Lemon Flavouring Extract.	66759	Windsor Grocery Co., 817 Govt. St., Victoria.	3 bots.	75	Wm. Braid & Co., Vancouver.		Braid's Best.
" 21	"	66762	West End Grocery, 1002 Govt. St., Victoria.	3 "	1.05	Crosse & Blackwell, London, Eng.		Essence of Lemon.
" 21	"	66763	" " "	3 "	75	Empress Mfg. Co., Vancouver.		Empress Brand.
" 21	"	66767	Dixie H. Ross & Co., 1317 Govt. St., Victoria	3 "	75	Vendors		Dixie Brand.
" 23	Extract of Lemon.	66768	Copas & Young, 631 Fort St., Victoria.	3 "	75	Pure Gold Mfg. Co., Toronto.		Pure Gold Flavouring Extract.
" 23	Lemon Flavouring Extract.	66770	Erskine & Co., 861 Johnson St., Victoria.	3 "	75	Imperial Extract Co., Toronto.		Shirriff's Imperial Quintessence True Lemon.
" 23	"	66771	Henry W. Driver, 856 Yates St., Victoria.	3 "	60	Pure Gold Mfg. Co., Toronto.		Pure Gold Flavouring Lemon Extract.
" 27	"	66673	Linden Grocery, Linden and May Sts., Victoria.	3 "	60	Empress Mfg. Co., Vancouver.		Empress Brand. Extract of Lemon.
" 28	"	66775	Gladstone Grocery, Gladstone and Fernwood Sts., Victoria.	3 "	75	W.A. Jameson Coffee Co., Victoria.		Jameson's Victoria Brand.
" 28	"	66777	E. B. Jones, 1800 Cook St., Victoria.	3 "	75	Wm. Braid & Co., Vancouver.		Braid's Best.

SESSIONAL PAPER No. 14

LEMON FLAVOURING EXTRACT.

Description from Label.	Results of Analysis.						No. of Sample.	Remarks and opinions of the Chief Analyst.
	Specific gravity at 20° C.	Rotation in 2 dm. tube at 20° C.	Lemon Oil.	Alcohol by volume.	Citral.	Refractive Index of oil at 20° C.		

Concluded.

			p. c.	p. c.	p. c.			
W. H. Malkins Co. Malkin's Best Flav. Ext. Lemon.	0.8671	+12.2	3.80	67.70	0.25	1.4742	55320	Genuine.
City Cash Grocery. Lemon Mixture.	0.9008	0.0	0.00	15.48	0.03		55321	Sold as mixture.

D. O'SULLIVAN, INSPECTOR.

Wm. Braid & Co. Braid's Best Flav. Ext. Lemon.	0.9017	+2.3	0.60	60.45	0.14	1.4745	66759	Citral below standard.
.....	0.8218	+64.1	20.4	93.54	0.67	1.4774	66762	Genuine.
Empress Mfg. Co. Empress Brand. Lemon Extract.	0.9538	0.0	0.00	36.52	0.07	...	66763	Citral low. Adulterated.
Dixie H. Ross & Co. "Dixie" Lemon Flav. Ext.	0.8568	+4.0	1.50	63.54	0.14	1.4740	66767	Citral below standard.
Pure Gold Mfg. Co. Pure Gold Flav. Ext. Lemon.	0.9363	0.0	Trace	46.72	0.10	...	66768	"
Shirriff's Imp. Quintessence True Lemon.	0.9154	+1.1	0.30	54.75	0.36	...	66770	Genuine.
Pure Gold Co. Pure Gold Lemon Extract.	0.9401	0.0	0.00	44.68	0.09	...	66771	Citral low. Adulterated.
Empress Mfg. Co. Empress Brand. Lemon Extract.	0.9015	+2.5	0.70	57.50	0.18	1.4743	66772	Genuine.
Govt. Standard. W. A. Jameson Co. Lemon Ext. Artificial Coloured.	0.9321	0.0	Trace	50.32	0.30	...	66773	"
Wm. Braid & Co. Braid's Best Flav. Ext. Lemon	0.8915	+3.5	1.30	63.35	0.16	1.4740	66774	"

